

NEW ENGLAND BIOLABS

Molecular Biology and PCR

Summer Workshops

WHEN:

Session 1: June 3 - June 16, 2001

Session 2: June 24 - July 7, 2001

Session 3: July 15 - July 28, 2001

WHERE:

Clark Science Center
Smith College
Northampton, MA

FACULTY:

Dr. Steven A. Williams

Dept. of Biological Sciences,
Smith College and
Molecular and Cellular Biology,
University of Massachusetts

Dr. Barton Slatko

New England Biolabs, Inc.
DNA Sequencing Group

Dr. Alan L. Scott

Dept. of Molecular Microbiology
and Immunology,
Johns Hopkins University

TO APPLY:

Please submit a recent C.V. or
resume and a one page statement
explaining your interest to:

Dr. Steven A. Williams

Clark Science Center
Smith College
Northampton, MA 01063

We are pleased to announce the sixteenth annual New England Biolabs Molecular Biology Summer Workshops held at Clark Science Center, Smith College, Northampton, MA, USA. Over 1,400 research scientists have attended this intensive program in the past fifteen years.

INTENSIVE BENCH EXPERIENCE:

This intensive, two-week course emphasizes hands-on molecular biology laboratory work. About ten hours each day will be spent working at the bench and in lecture/discussions. All of the work is hands-on; there are no demonstrations.

EXPERIMENTS WILL INCLUDE:

Construction and screening of genomic and cDNA libraries, PCR, RT-PCR, PCR subcloning, purification of DNA and RNA, restriction enzyme digestion, gel electrophoresis, construction of recombinant DNA molecules, cloning in plasmid and phage vectors, cloning strategies, bacterial transformation, Southern and Northern transfer and hybridization, methods for labeling DNA, DNA sequencing, bioinformatics, etc. All of these techniques are woven into four cohesive research projects carried out by each participant during the two-week session. Lectures and discussion sessions will deal with all of the above topics and the application of these methods in molecular biology research.

INTENDED FOR BEGINNERS IN MOLECULAR BIOLOGY:

No previous experience in molecular biology is required or expected. Forty-eight participants per session will be selected from a variety of disciplines and academic backgrounds. Last year's participants included principal investigators, directors of programs, postdoctoral fellows, graduate students, and research assistants. Their fields of research included medicine, biochemistry, ecology, immunology, microbiology, pharmacology, plant biology, genetics, physiology, and others. They came from large universities, small colleges, medical schools, hospitals, industry, and private foundations; 75% came from the USA and 25% from overseas. With seven instructors, the student to teacher ratio is 7 to 1.

FEE:

\$3500 per participant includes lab manual, use of all equipment and supplies, and room and board (all rooms are singles). Fee includes the use of the libraries, computers and all campus athletic facilities.

APPLICATIONS MUST BE RECEIVED BY March 20, 2001.

Notification of acceptance status will be mailed by March 13, 2001. Late applications will be accepted for our wait list. Payment in full will be due by April 10, 2001.

Your application should include a brief C.V. and a one page statement explaining your reasons for taking the course. Please specify the session to which you are applying (1, 2, 3) and indicate one of the other sessions as a second choice. Women and minorities are especially encouraged to apply. **For additional information, please visit our web site (<http://math.smith.edu/~sawlab/neb.html>) or contact us at (413) 247-3004.**



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MAMMALIAN GENOTYPING SERVICE

The Mammalian Genotyping Service is funded by the National Heart, Lung, and Blood Institute to assist in linkage mapping of genes which cause or influence disease. Genotyping is carried out using short tandem repeat polymorphisms at Marshfield, Wisconsin under the direction of Dr. James Weber. Capacity of the Service is currently about 6,000,000 genotypes (DNA samples times polymorphic markers) per year and growing. Although the Service was initially established for genetic projects dealing with heart, lung, and blood diseases, the Mammalian Genotyping Service will now consider all meritorious applications.

To ensure that the most promising projects are undertaken, investigators must submit brief applications that are evaluated by a scientific advisory panel. At this time, only projects involving human, mouse, rat, dog or zebrafish and only projects with > 10,000 genotypes will be considered. DNA samples must be in hand at the time of application. **There are no genotyping fees for approved projects.** Application deadlines are every six months.

Upcoming Deadlines:

March 31, 2001

September 30, 2001

View instructions online:

<http://research.marshfieldclinic.org/genetics>

Call for an application:

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PCR clean-up.

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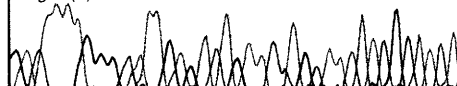
when you can

Fig. 1. Fluorescent sequencing results of a 100 bp pUC18 PCR fragment sequenced with a -20 Fwd primer using the DYEnamic ET Terminator Cycle Sequencing Kit (Amersham Pharmacia Biotech). Data generated for USB by Cleveland Genomics (clevelandgenomics.com), a research service company. PCR clean-up performed with: (a) ExoSAP-IT; (b) a column designed for PCR clean-up. Base miscalls in (b) are due to inherently low yields of short PCR products when using columns.

Fig. 2. Autoradiograms of a 20.7 kb Lambda PCR fragment sequenced with MBL202 Fwd primer using USB's Thermo Sequenase Radiolabeled Terminator Cycle Sequencing Kit. PCR clean-up performed with: (a) ExoSAP-IT; (b) a column designed for PCR clean-up.

GATCCCCCGGTTACCGAGCTCGAATTCGTAAATCATGTCTATA
30 40 50 60

Fig. 1(a)



GATCCCCCGGTTACCGAGCTCGAATTCGTAAATCATGTCTATA
30 40 50 60

Fig. 1(b)

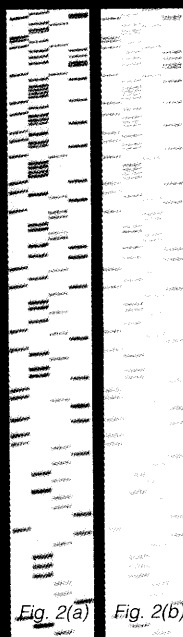
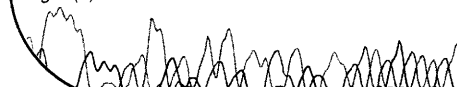


Fig. 2(a)

Fig. 2(b)

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[†] The Polymerase Chain Reaction (PCR) is covered by patents owned by Roche Molecular Systems and F. Hoffmann-La Roche Ltd. [‡] Patent pending on product. The method of use is covered by the following patents: 5,756,285 and 5,741,676.

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SYSTAT version 10 is the latest update of this comprehensive but compact statistical package for personal computers. Targeted at non-novice users, SYSTAT 10 provides a range of statistics and graphics that are suitable for publication. The results may also be exported as Web pages.

Power analysis functions are a significant addition to version 10, appearing in SYSTAT's Design of Experiments menu with options for common tests, analysis of variance (ANOVA), and generic designs. Other additions include mixed regression for nested two-level data and unbalanced repeated measures, and command-file lists. Also new is "Graph Express," a separate program that allows SAS users to create SYSTAT graphics easily.

The program's range of included statistics is comprehensive, including descriptive and test statistics; nonparametrics; general linear and loglinear models; regression, including logistic and mixed; classification and regression trees; nonlinear estimation; matrices; missing values analysis; multidimensional scaling, path and probit analysis; signal detection; smoothing; spatial statistics; survival analysis; test item analysis; time series; design of experiments; multiplots; and more.

Data may be imported (interactively or by using command scripts) from numerous popular formats, including text, Excel, SAS, arcView, ODBC (with SQL queries), dBase, DIF, BMDP, and others. Although data file sizes are limited only by the amount of available RAM and disk capacity (minimally 32 MB RAM; 30 MB hard disk), the program is not practical for extraordinarily large analyses, such as raw U.S. census data.

Graphics are excellent and include maps, multiplots, kernel densities, Voronoi tessellations, function plots, contours, quality control charts, and scatterplot matrices. Dynamic revision and linking of graphs to raw data are well-integrated, and graphs can be extensively edited. Statistics and graphics are combined in SYSTAT's Output Organizer for reports. There is a visual graphics gallery from which to choose graphical procedures.

Most tasks are accomplished in a two- or three-pane window called Output Organizer. The left pane lists each procedure and graph run in the session, and this list indexes the output display in the right pane. A third pane at the bottom (detachable) allows editing of entered commands. Double-clicking any output graph copies it into a separate window for editing. Data are entered, edited, and transformed in a spreadsheet-like data window. Menu toolbars throughout SYSTAT may be customized via drag-and-drop.

SYSTAT's strongest points include the wide range of statistics offered for power users and the program's reliability and strong graphic functions.

—RONALD GOLDTHWAITE

Department of Psychology, University of California, Davis, CA 95616, USA. E-mail: rogoldthwaite@ucdavis.edu

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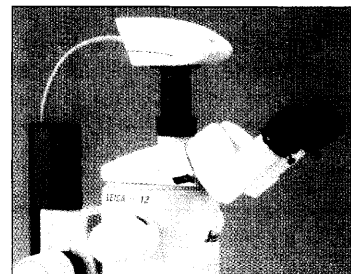
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Ruth Fischbach, Professor of Bioethics in
Psychiatry, Columbia University College of
Physicians and Surgeons

Wednesday, March 28, 2001

The Many-Sided Conflict between Science and Religion

Philip Kitcher, Professor of Philosophy,
Columbia University

Tuesday, April 3, 2001

Manjushri's Wisdom Sword: A Buddhist View of Religion and Science

Robert Thurman, Jey Tsong Khapa Professor
of Indo-Tibetan Buddhist Studies,
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Tuesday, April 17, 2001

Old Wine, New Flasks: Reflections on Science and Jewish Tradition

Roald Hoffmann, Frank H. T. Rhodes
Professor of Humane Letters (Chemistry and
Chem Bio), Cornell University, Spring 2001
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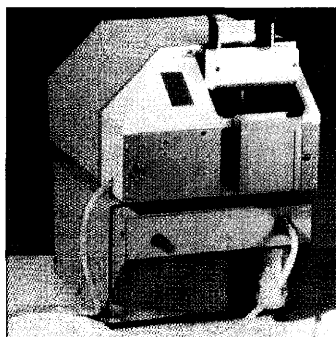
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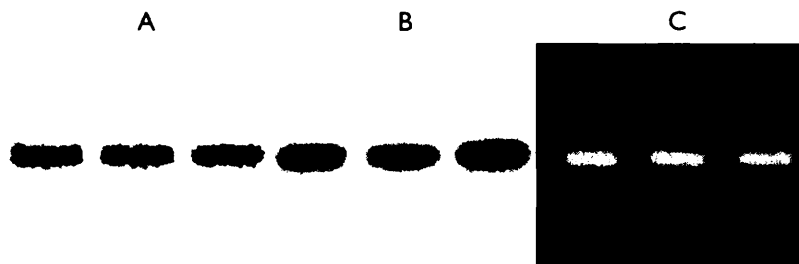
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POSITIONS OPEN

STAFF PHYSICIST

The Center for X-ray Optics within the Materials Sciences Division at Lawrence Berkeley National Laboratory seeks an experienced Scientist/Engineer to join its Nanofabrication group. Using its 100kV Nanowriter electron beam lithography tool, the group is presently involved in several projects involving engineered nanostructures with nominally 20nm features. We seek a candidate who can play a significant leadership role in efforts to fully exploit the unique capabilities of the Nanowriter; to fabricate diffractive optical structures such as gratings, zone plates, and test structures; support electronic device research with scaling and processing aimed at producing sub-20nm CMOS-type structures; and support innovative processing for magnetic materials and other physical science experiments on the 10-20 nanometer scale.

The successful candidate will have substantial experience with electron beam lithography systems and nanostructure fabrication technology. Experience with electronic devices and processing, computer systems and software, and good communication skills are required. A Ph.D. in electrical engineering, physics, or material science is preferred.

To apply, submit a letter of interest and curriculum vitae online to website: <http://cjo.lbl.gov/>; mail to: Lawrence Berkeley National Laboratory, MS 937-600, 1 Cyclotron Road, Berkeley, CA 94720. E-mail: msemployment@lbl.gov (no attachments, please); FAX: 510-486-5870. Reference Job Number MS/013231/JS in your cover letter. Applications will be considered from February 10, 2001, until the position is filled. *Berkeley Laboratory is an Affirmative Action/Equal Opportunity Employer committed to the development of a diverse workforce.*

RESEARCH INVESTIGATOR FACULTY POSITION DIVISION OF PEDIATRIC GENETICS University of Michigan Department of Pediatrics

The Division of Pediatric Genetics is soliciting qualified Ph.D.s to apply for a faculty position to investigate signal transduction and osteoblast differentiation. Applicants should have three years of postdoctoral training in Rho protein signaling and demonstrated expertise in molecular genetics and cellular biology. We are recruiting research-track faculty; successful applicants will be experienced in cellular microinjection and fluorescent and confocal microscopy. Positions will be filled by Investigators at the Research Investigator level.

Interested applicants should send curriculum vitae, a short statement of research interests and plans, and the names of three references to: **Jerome Gorski, M.D., Division of Pediatric Genetics Search Committee, Department of Pediatrics, 3570 MSRBII, Box 0688, The University of Michigan, Ann Arbor, MI 48109-0688. Telephone: 734-763-5276; e-mail: jgorski@umich.edu.**

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

JUNIOR FACULTY POSITION

The Center for Vascular and Lung Pathobiology and the JDRF Center on the Complications of Diabetes at Columbia University seek a highly qualified junior faculty member for a **TENURE-TRACK POSITION**. The individual must have experience in molecular biology; the design and generation of genetically manipulated mice; cell biology; analysis of animal models (related to atherosclerosis, diabetes, lung disease); and cell biology. The successful candidate will work with a highly interactive research group addressing broad issues in vascular biology.

Please send curriculum vitae and the names and addresses of two academic references to: **Ms. Claudia W. Edwards, College of Physicians and Surgeons of Columbia University, P&S 17-401, 630 West 168th Street, New York, NY 10032.** *Columbia University is an Affirmative Action/Equal Opportunity Employer.*

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Biochemical Engineer – Associate or Scientist level

Be part of an interdisciplinary team responsible for developing and optimizing cell culture processes for the production of human therapeutics for use in clinical studies. Requirements include a BS/MS in biochemical or chemical engineering, biotechnology, or a related field for the associate level and a Ph.D. in biochemical or chemical engineering for the scientist level, and hands-on experience with mammalian cell cultures. **ADSCIBCHEM**

Cell Culture Development – Associate or Scientist level

The associate or scientist will be part of a team preparing highly productive cell lines to produce pharmaceutical proteins. Requirements include a BS/MS in a biological science discipline for the associate level and a Ph.D. in biochemistry, or cell or molecular biology with 2-3 years' industrial experience in the development of cell culture processes for the scientist level. Must also have hands-on experience with mammalian cell cultures. **ADSCICCBRO**

Senior Cell Culture Molecular Biologist

The scientist will lead and manage a highly productive laboratory in preparing productive cell lines to produce pharmaceutical proteins. A Ph.D. in biochemistry, or cell or molecular biology is required as is 8-10 years' industrial experience related to mammalian cell line construction. Must also have a demonstrated record of preparing highly productive cell lines. **ADSCISCCB**

Microbial Strain Improvement – Group Leader

The senior scientist will lead screening efforts to identify improved cultures, optimize fermentations, and implement new automated screening methods for rapid throughput of cultures. Must have a Ph.D. in biochemistry, microbiology, biotechnology, or a related discipline; 3-10 years' industrial experience in growing microbial cultures; experience in media design and optimization; and a working knowledge of microbial physiology and genetics. **ADSCIMSIGL**

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The Linköping initiative within

Life Science Technologies

8 new professorships

Bioinformatics. This professorship involves one or more of the following areas of bioinformatics: data mining, algorithm development and/or modelling and simulation. Data mining in biological databases includes the analysis of information from proteome and metabolome studies. Algorithm development concerns, for instance, the analysis/prediction of protein structure and function, or phylogenetics. The third area involves the modelling and simulation of biological processes. The holder of this multidisciplinary chair shall establish and maintain collaboration with research groups in the life sciences, in computer science, and in mathematics, both within and outside Linköping University.

Biological computation. The ability to design and implement structures in biological materials, for computation and for data storage and management has enormous potential in chemical process technology, in medicine, information technology and in environmental engineering. The area of specialisation for this chair concerns algorithms, architecture and

structures pertaining to the implementation of systems in biological materials, for computation, data storage and management. The holder of this multidisciplinary professorship is expected to establish and maintain collaboration with research groups active in the areas of biotechnology, computer science, systems analysis and medicine, both within and outside Linköping University.

Medical molecular biology. Basic biological research on the molecular or cellular level aiming at the understanding of the causes of inherited and acquired illnesses.

Functional genome research. The subject area covers studies of the structure and function of the genome and proteome. It includes the function of specific genes, how gene expressions are processed into phenotypes, the interaction between different genes and between genes and gene products, the connection between the genome and protein function as well as the interaction between different proteins.

A dynamic high-tech region

Linköping is the centre of a dynamic high tech region ranked as number two in Sweden according to a report published by Eurostat-99. Home of Saab technologies and a centre for Ericsson and Nokia development units for cordless Internet and "smart homes", it has a strong position within aviation and information technology.

Adjoining the main campus is Mjärdevi Science Park, one of the fastest growing science parks in northern Europe. Today there are 160 companies with over 5,500 employees. The majority of these were founded by researchers and students at the university. Proximity to the university means proximity to a natural research

environment, but above all it means proximity to qualified labour. Berzelius Science Park is a younger cousin of Mjärdevi comprising about 20 companies with a focus on medicine and medical technology. Today Berzelius is located in the vicinity of the university hospital.

The Technology Bridge Foundation assists in the development of knowledge-based start up technology companies. It provides both the business expertise and the seed capital necessary for conceptual, entrepreneurial, and business development. Traditional venture capital as well as patent consultants are close at hand forming part of the infrastructure. Together we now lay the foundation

& Biomedicine

Linköping University has launched a strategic initiative within Life Science Technologies and Biomedicine. Based on a **strong tradition of multidisciplinary research and co-operation across faculty borders**, the initiative comprises 16 new professorships. Eight have recently been appointed – eight more are needed.

Clinical genome research. The subject area covers studies of genetic factors that affect the causes of illnesses. Interdisciplinary research intended to identify genetic determinants for various illnesses and to assess the connection between inheritance and environment as regards the risk of illness for the individual, within families or populations.

Molecular virology. The subject area covers studies of pathogenic viruses and the immunological reactions that the viruses give rise to in the event of illness. Exploration on a molecular level of the functions and structure of viruses, the interaction between viruses and human cells, antiviral therapeutic principles and the pathogenesis of viral illnesses are examples of areas that may be included in this subject area.

Pharmacogenetics. Pharmacogenetics includes studies of the role of the genome in the treating of individual patients with pharmaceutical preparations with respect to the individual's set of receptors and metabolic enzymes.

Life sciences and society. The professorship emphasises studies of the interplay between bioscience on the one hand with culture, social relations, economy and society on the other. Research may be carried out on the development and consequences of biotechnology in relation to one or several of the following areas: everyday conceptions of and ethical attitudes towards biotechnology; scientific sociological and anthropological perspectives; politics, law and economics of bioscience; media, concept and culture analysis.

Eight professors have recently been appointed:
Biomolecular and organic electronics • Biotechnology • Organic chemistry • Sensor science • Applied mathematics, esp biomathematics • Mathematical statistics, esp biomathematics • Vascular biology • Molecular biotechnology

More information:

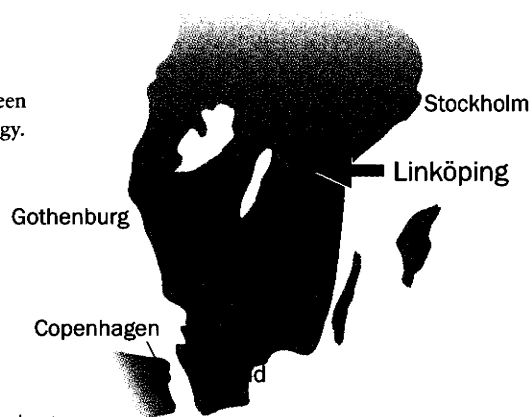
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for the region's powerful clustering of competence in the IT area to be complemented by successful, knowledge-based industry that has its roots at

the meeting point between bioscience and technology.



LINKÖPINGS UNIVERSITET



Linköping University has 3,000 employees, 20,000 students and a gross operating income of 2 billion SEK (225 M€) divided approx. fifty-fifty between education and research. The university comprises three faculties: medicine/health sciences, technology and arts & sciences. It has a strong and renowned reputation for its ability to foster interdisciplinarity and strong research profiles in areas such as computer science, systems analysis, materials science and biological physics. Student recruitment is nationwide with Sweden's highest entrance scores in the fields of medicine and engineering biology.



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SCIENTIST II

Use your background in Molecular Biology/Biochemistry to assist our high throughput screening efforts. Our Oncology drug discovery team seeks a MS/BS with 2-5 years' Biotechnology or Pharmaceutical expertise; HTS screen development and adaptation expertise is ideal. MS Office and Excel proficiencies are also desirable.

RESEARCH SCIENTIST II

Help us change the face of medicine by maintaining various normal and tumor cell lines, PCR, plasmid propagation and purification, DNA sequence manipulations, Northern/Western blot analysis, and ELISA. You'll need a BS in Biology, Biochemistry, or a related field and 8 years' experience in cell culture, recombinant DNA technology, and biochemical techniques and assays. Candidates with a MS in the biological sciences and 5 years' similar experience will receive strong consideration as well.

RESEARCH SCIENTIST II - BIOLOGY

You'll be challenged to implement a high-throughput screen for agents that selectively inhibit the growth of tumor cells, while performing mechanistic studies and summarizing your findings at laboratory meetings. To qualify, you should have either a MS and 8 years' experience or a BS and 11 years' relevant experience. Expertise in one of the following is preferred: signal transduction, hormonal control, cell cycle control, transcriptional regulation, and microtubule mediated cell death.

SENIOR RESEARCH SCIENTIST II - BIOLOGY

In running a laboratory that identifies cancer controlling therapeutics, you'll deliver written and oral research summaries as well as train assistants to run simple to moderately complex experiments. Candidates with a Ph.D. and 5 years' experience qualify, as do those with a MS/BS and 17-19 years' experience. An outstanding record of achievement (published) is required, as is expertise in one of the following fields: motor proteins with emphasis on microtubule-mediated cytotoxics, signal transduction with emphasis on kinase inhibitors, and/or hormonal cancer control.

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UIC University of Illinois
at Chicago

Head Biochemistry & Molecular Genetics

Applications and nominations are invited for the new position of Head of the Department of Biochemistry & Molecular Genetics at the University of Illinois at Chicago (UIC). This new position has arisen from the merging of the Department of Molecular Genetics and the Department of Biochemistry & Molecular Biology to form the Department of Biochemistry & Molecular Genetics, with a mission for the Department to develop in a way that takes advantage of the enormous new opportunities afforded by the genomics revolution.

The new Head will be charged with integrating the current faculties of the Departments of Biochemistry & Molecular Biology and of Molecular Genetics, which currently consist of 29 full-time members with well-funded research programs supported by extramural funding in excess of \$11 million in the current year, including 30 NIH research and training grants. The constituent graduate programs are strong, with current combined enrollment of 78 graduate students. The new Head will be expected to play a key role in the establishment of a campus-wide Center for Genomic Sciences to develop genomics, proteomics and related disciplines.

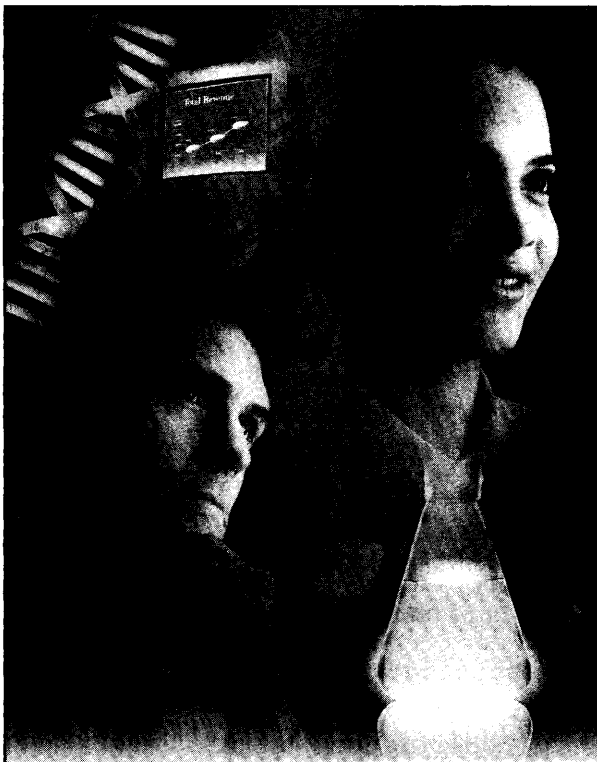
The successful candidate should have a Ph.D. and/or M.D. degree, must be of national stature, have an active funded research program that fits well with the mission of the Department, have exceptional administrative skills, and have the vision and drive to ensure the successful integration of the constituent Departments and the development of genomic sciences at the college and institutional levels. The candidate should be eligible for professorship status with tenure.

For fullest consideration, nominations and/or letters of application, along with curriculum vitae and names of three references should be submitted by April 15, 2001 to:

Asrar B. Malik, PhD, Professor & Head, Department of Pharmacology Chair, Biochemistry & Molecular Genetics Head Search Committee
c/o Gregory S. Pittsley,
Dean's Office

UIC College of Medicine at Chicago
1853 W. Polk Street, Room 131 CMW
(M/C 784)
Chicago, Illinois 60612

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



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Opportunities in Antibacterial Research

As a company with the aim to do more than any other in history to improve people's lives, we are proud of our highly successful discoveries in the field of antibacterial research. Drawing on cutting-edge technologies and the dedication of today's best Infectious Disease specialists, Pfizer is committed to providing new and better therapies for the world's health. Consider one of the following opportunities in the growing field of Antibacterial Research in Groton, Connecticut, and join us in leading a healthier tomorrow.

Principal Investigator

Using established *in vivo* models of bacterial infection, you will coordinate experimental preclinical evaluations of antibacterial agents. Responsibilities include conducting exploratory research to evaluate and establish new animal models; leading a team of associate technical staff while providing guidance and training; and identifying experimental priorities. This position requires a PhD in Microbiology or a PharmD degree, 2 years postdoctoral experience and 5 years industrial experience in the characterization of *in vivo* models of bacterial infection. Five years supervisory experience and *in vivo* antibacterial research experience are desirable. Demonstrated knowledge of bacterial pathogenesis and familiarity with the antibacterial drug discovery/development process is preferred. Req. #05Jan0102322

Research Associate

As a member of our Drug Discovery, Antibacterial group, you will characterize the efficacy of novel antibacterial agents in laboratory rodent test systems. Responsibilities include conducting PK/PD experiments, summarizing data and updating the anti-infective database. You must have a BS/MS in Microbiology, Pharmacology or a related field, and a demonstrated knowledge of bacterial diseases, microbial physiology, lab animal pharmacology and pharmacokinetics or toxicity. Experience with small animal surgical techniques is preferred, as is familiarity with animal tissue cultures. Excellent aseptic and microbe cultivation techniques are essential, and proficiency with Windows and Microsoft Office Suite is desirable. This position requires flexibility in work hours and the ability to work well with a multidisciplinary team while remaining self-motivated. Req. #00-007707

Principal Investigator – Molecular Sciences

Leading a team of associate technical staff, you will use classical and molecular genetic methods to conduct exploratory research on new targets for antibacterial screening efforts. Duties include contributing to bioinformatic studies to provide prioritized lists of candidate target genes from comparative genomic analyses and assigning individual tasks based on project team goals. You must have a PhD in Microbiology, Molecular Biology or a related field, and 2 or more years of postdoctoral experience. Familiarity with the antibacterial drug discovery process and experience using genomic tools for novel antibacterial target identification are desired. Req. # 25Jan0102072

Principal Investigator

Using your experience in postdoctoral clinical microbiology research, you will coordinate *in vitro* susceptibility testing of candidate antimicrobial compounds against a panel of clinically relevant bacterial pathogens. Additionally, you will oversee curation of departmental culture collections; provide drug discovery and microbiology expertise; and support on-going mechanism of action studies through independent research efforts. You must have a PhD in Microbiology or a related field and a working knowledge of NCCLS methodologies. Two years experience in the pharmaceutical industry are desirable, as is a practical understanding of Chlamydia culture and propagation. Req. #02Jan0101511

Pfizer offers an exceptional work environment complete with competitive salaries, exceptional benefits and training opportunities designed to develop your professional talents. We encourage all applicants to apply by emailing your resume, indicating the appropriate Req. # in the subject field, to SCI@pfizerresumes.com. If necessary, you may also mail your resume, indicating Req. #, to Pfizer Resume Processing Center, 630 Boston Road M-104, Billerica, MA 01821, Attn: Softshoe Resumes. An equal opportunity employer, Pfizer offers a workplace rich with diversity and potential.

Better Genes!

Enchira Biotechnology Corporation (ENBC) is using directed evolution, high throughput screening and bioinformatics to create improved genes that will lead to new protein therapeutics, antibodies, vaccines and enzymes. We are currently expanding in a number of areas. All of these positions require individuals with a vital, entrepreneurial spirit, excellent communication skills, the ability to work in a team environment, and a drive to make things happen. New openings include:

Cell Biologist (EBC01001) to participate in the genetic manipulation of mammalian cell lines. Experience with rDNA techniques and gene expression in mammalian systems. Ph.D. with at least two years of post doctoral experience, a good publication record and the demonstrated ability to lead research programs.

Molecular Immunologist (EBC01002) to participate in protein and antibody engineering efforts. Experience in cloning and manipulating antibody encoding genes, protein display and molecular evolution technologies. Ph.D. with post doctoral experience, strong record of publication and a comprehensive background in molecular biology and immunology.

Assistant/Associate Research Scientists (EBC01005) to participate in a number of directed evolution projects. Experience in basic rDNA techniques, enzyme and binding assays, other basic lab techniques. BS/MS with solid experience in creating quality results in a fast-paced, multidisciplinary environment.

Enchira (Greek: *in hand*) **Biotechnology Corporation** is located in the Research Forest area of The Woodlands, Texas. We are surrounded by other growing biotechnology companies and are a short drive from Houston and the Texas Medical Center. The Woodlands is a growing, planned community that offers affordable housing, excellent schools, and a short drive (or walk) to work.

Please mail or email a resume and cover letter stating the position of interest. Include the position code and three relevant references. Send to: **Human Resources, Enchira Biotechnology Corporation, 4200 Research Forest Drive, The Woodlands, TX 77381; Fax: 281-364-6112; email: info@enchira.com.** No phone calls, please. *EOE, M/F/D/V*

Van Andel Research Institute

Crystallographer

Van Andel Research Institute, an independent organization dedicated to becoming one of the world's pre-eminent private medical research institutes by building on the extraordinary discoveries in molecular biology and genetics, is inviting applications for two Principal Investigators in Protein Crystallography.

Candidates should be interested in establishing an independent research program. The structural biology component will complement and enhance the existing and planned multi-disciplinary effort in cancer biology. Qualified candidates with experience in protein crystallography, especially those with an interest in cancer research, should consider this unique opportunity in the newly created institute. The Michigan Life Sciences Corridor has recently funded a Center for Structural Biology, a consortium comprised of the major Michigan universities and VARI to emphasize structural biology in the development of a Michigan-wide effort. Among the anticipated benefits will be preferential access to a regional beamline at the Argonne National Laboratory as well as strong ties to structural biologists at the University of Michigan, Michigan State University, and Wayne State University. New space, generous start-up funds, and resources for a five-year commitment are part of the package.

Applications are invited from highly motivated individuals with:

- a Ph.D.
- at least three years of postdoctoral experience in protein crystallography
- a proven record of accomplishments

Visit www.vai.org to learn more about the Institute. To apply, send a letter describing your research interests, your curriculum vitae, together with the names and addresses of three references to:

**Van Andel Research Institute
Human Resources Department
ATTENTION: Pam Murray
333 Bostwick N.E.
Grand Rapids, MI 49503**

Or

VARI-Employment@vai.org



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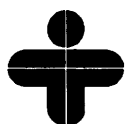
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National University Hospital

ANGIOGENESIS RESEARCH SCIENTIST

The National University Hospital, one of the premier clinical research institutions in Singapore, is seeking a Research Scientist to assume a leadership role for its research in angiogenesis. The successful candidate will augment existing multidisciplinary research team in the frontiers of angiogenesis.

The qualified candidate should have a PhD with some experience in basic angiogenesis research and/or viral mediated gene transfer. Other experience with cardiovascular research will be an advantage.

Interested applicants should submit a resume to:

Chairman, Medical Board
Medical Affairs Department
National University Hospital
5 Lower Kent Ridge Road
Singapore 119074

Telefax: (65) 7756757
Enquiries: YoongLS@nuh.com.sg
Website: <http://www.nuh.com.sg>
Closing date: 8 April 2001

Only shortlisted candidates will be notified.



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FELLOWSHIPS

Croasdale Fellowship in Ecology Dartmouth College

The Department of Biological Sciences at Dartmouth College seeks qualified applicants for a **Hannah T. Croasdale Fellowship** to begin in fall of 2001. The Croasdale Fellowships are two year, non-tenure track positions with competitive salaries and research stipends. The successful Fellow will teach undergraduate courses during two of the four terms in an academic year (two courses per year total) and undertake a postdoctoral research project in affiliation with an established laboratory in the department. Preference will be given to candidates who could teach at least two courses from the following: Introduction to Ecology and Evolution, Animal Behavior, Community Ecology, Field Ecology, and Vertebrate Biology.

Candidates must have a Ph.D. or equivalent before 1 September 2001. The applicant should identify the laboratory, or laboratories, with which he or she would like to affiliate. Descriptions of faculty interests can be found at <http://www.dartmouth.edu/artsci/biology/index.html>.

Applicants should send statements of research interests, teaching interests including a description of a potential course, curriculum vitae, representative reprints, and have three letters of recommendation sent to **Croasdale Ecology Search, Department of Biological Sciences, Dartmouth College, Hanover, New Hampshire 03755**. Consideration of applications will begin on 30 March 2001. *Dartmouth College is an Equal Opportunity/Affirmative Action Employer.*



THE CHINESE UNIVERSITY OF HONG KONG

Department of Chemistry

Professor of Chemistry (Ref. 01/016(665)/2) (Closing date 31 March 2001)

The Department of Chemistry offers study programmes leading to BSc, MPhil and PhD degrees. Faculty members' extensive research interests span over the areas of analytical & environmental chemistry, laser spectroscopy, inorganic & structural chemistry, organic synthesis, organometallic chemistry, physical & biophysical chemistry, chemistry of macromolecules & colloids, surface & materials chemistry, and theoretical & computational chemistry. A new Centre for Scientific Modeling and Computation comprising faculty members with specialties in chemistry, materials science, condensed matter physics, biology and statistics was recently established for developing the interdisciplinary field of scientific modeling and computation. Facilities include a central super-computer, a computer-cluster with over 100 nodes developed and constantly upgraded, as well as other computational systems on campus.

Applicants for the professorship should have outstanding academic qualifications, substantial university teaching and research experience, a distinguished record of academic and professional performance comparable to a senior academic/an established research group leader, demonstrated ability to develop and conduct interdisciplinary research, a publication record of scholarly works of international impact, and a solid background in academic administration. In support of current research thrust, experience in *ab initio* calculations of electronic structures and their applications in materials research, development of new molecular dynamics techniques and computer-cluster facilities, and collaboration with experimental groups will be expected, preferably also with knowledge in the general area of scientific modeling and computation. Working knowledge of the Chinese language and good communication skills in Cantonese (the local dialect) will be a definite advantage. Apart from teaching, research and administrative duties, the appointee is also expected to inspire and lead world-class collaborative research in his/her specialty field. Appointment will initially be made on fixed-term contract basis for up to three years from January 2002, renewable subject to mutual agreement.

Annual Salary and Fringe Benefits

Professor of Chemistry: Commencing HK\$1,229,280 (approx. exchange rate in February 2001: £1 = HK\$11.41; US\$1 = HK\$7.75). Starting salary will be commensurate with qualifications and experience.

Benefits include leave with full pay, medical/dental care and hospitalization benefits as appropriate; and where applicable housing benefit for eligible appointee (subject to the rules for the prevention of double housing benefits); plus a contract-end gratuity and University contribution to retirement scheme (totalling up to 15% of basic salary).

Further information about the University and the general terms of service for teaching appointees is available on our homepage: <http://www.cuhk.edu.hk>. A profile of the Department can be found at: <http://www.chem.cuhk.edu.hk>

Application Procedure

Please send full resume, copies of academic credentials, a publication list and/or abstracts of selected published papers, together with names and addresses (fax numbers/e-mail addresses as well, if available) of three referees to the Personnel Office, University Administration Building, The Chinese University of Hong Kong, Shatin, New Territories, Hong Kong (Fax: (852) 2603 6852) on or before **31 March 2001**. Please quote the reference number and mark 'Application - Confidential' on cover. [The University reserves the right not to fill the post, to fill the post by invitation or to fill the post at a lower level.]

Biotech

RPI, a leader in the development of Ribozyme based Pharmaceutical products, has the following opening at our company in Boulder, CO:

Scientist - Biochemistry

We are seeking a scientist to be responsible for evolving microbes or enzymes to generate precursors for synthetic ribozymes. The successful candidate must have a Ph.D. in Microbiology or related field and have experience with metabolic engineering, enzymatic evolution or nucleic acid metabolism. Basic skill in molecular biology and analytical techniques a must. The ideal candidate will be an independent thinker who possesses excellent leadership and communication skills.

We offer a competitive salary and a generous benefits package, including a stock option plan. For consideration, please send a resume and salary requirements to: Ribozyme Pharmaceuticals, Inc., Job Code #059, 2950 Wilderness Place, Boulder, CO 80301, or fax to: 303-449-6995, or email: jobs@rpi.com. Please visit our website at www.rpi.com. EOE



Together, we can do more... for the cause

VICE PRESIDENT RESEARCH PROGRAM

The **American Diabetes Association** supports research in diabetes by funding over 400 scientists throughout the United States through a competitive, peer-reviewed process. We are now seeking applicants for the position of Vice President, Research Program at our Alexandria, VA National Office. The successful candidate will oversee the administration of our research program to include managing all aspects of grant review and interacting with our volunteer leadership to establish the scope and direction of the research program. Secondary responsibilities include presentations to lay and scientific audiences, representing the Association at research conferences, and assisting other staff in promoting the financial growth of the program.

Requires: Ph.D, M.D., or the equivalent degree; supervisory experience; a record of productive research; and excellent written/verbal communication skills. An understanding of the science of diabetes is highly desirable, as well as familiarity with the not-for-profit voluntary health sector.

Please send letter of interest, CV, and salary requirements, to: **American Diabetes Association, Attn: HR/TA/SM, 1701 N. Beauregard St., Alexandria, VA 22311; Fax: (703) 299-5525; or E-mail: personnel@diabetes.org.**

The American Diabetes Association is a proud equal opportunity employer that holds inclusion as a core value.



www.diabetes.org



Mayo Clinic Research Associate Positions

Five positions are available at the Rational Molecular Design Lab to develop therapeutic agents using new techniques in computational chemistry and combinatorial chemistry: two Ph.D.-level computational biologists with experience in molecular mechanics and/or quantum mechanics calculations of biological systems; a synthetic chemist with at least an MS degree and experience in synthetic chemistry; a biochemist or pharmacologist with at least an MS degree and experience in *in vitro* and *in vivo* testing of therapeutic agents; and a computer programmer with at least a BS degree and knowledge of parallel computing and statistical mechanics. Salary will be determined by the successful candidate's experience. There is also an attractive benefits package. Mayo Clinic is a non-profit physician led clinical practice integrated with education and research in a unified multi-campus system. Mayo Clinic has an annual research budget of more than \$100 million. Applications including CV and three recommendation letters should be sent to:

Yuan-Ping Pang, Ph.D.
Mayo Clinic
Guggenheim 711A
200 First St. SW
Rochester, MN 55905
pang@mayo.edu

See also <http://www.mayo.edu/research/>

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South East UK - Ref C002012

This is an exceptional opportunity to join the Life Sciences Division of Corning - Europe.

Corning Incorporated, a Fortune 500 company and leader in the Life Sciences field, supplies a range of products to the highly specialised and fast growing European market. These complement the company's wider portfolio of telecommunications and advanced materials products. The company has achieved international acclaim as a progressive employer of choice, committed to best practice in the field of cultural diversity and personal development of its employees.

Working as part of the UK team you will be responsible for sales and business development within key accounts, establishing contact, influencing decision makers and building the business within each of our high value customers.

At minimum, you need to have a degree in a Life Sciences discipline coupled with practical experience of working in a laboratory environment. The successful candidate is likely to have three years' or more field sales and/or account management experience.

The ability to communicate technically with a wide range of customers from procurement managers in the pharmaceutical industry to end user/technicians within research and educational establishments is essential. You will sell the full range of Life Science products particularly focusing on Corning Life Science's advanced product range.

This is an extremely challenging position within an innovative, progressive and rapidly growing global business.

Please send your CV to Sophie Pickup, mkworldwide, Riding Court, Riding Court Road, Datchet, Berkshire SL3 9JT. Email spickup@mkworldwide.com Fax 01753 589001. Telephone: 07769 978107.

Max-Planck-Institut für Metallforschung

PhD and Post-Doctoral Positions Nano-/Bio-Materials Science



The newly formed department "Theory of Mesoscopic Phenomena" at the Max Planck Institute for Metal Research in Stuttgart invites applications for up to 10 positions of PhD students and Post-Doctoral research fellows in the field of nano- and bio-materials science. The department is organized to conduct a wide range of research in theoretical, computational and experimental investigations of nano- and bio-materials science problems including nanotechnology and nanofabrication, mechanical properties of materials at the nanoscale, microelectromechanical systems (MEMS) and forming synergies between applied mechanics and materials science and biology to create bio-MEMS. Specific topics of interest include morphological and compositional evolution in thin films and related structures; self-assembly and directed fabrication of polymers and biomaterials; biochips; microfluidics; mechanical properties of cells and their interaction and coupling with various thin film substrates.

We seek highly qualified individuals with background in Materials Science, Applied Mechanics, Physics, Chemistry, and Biology to set up a multidisciplinary research program on nano- and bio-materials science. You will join a well-funded team consisting of reputable international scientists in an intellectually stimulating environment. We offer a competitive salary with excellent benefit package. The institute will soon move into a new building with state-of-art equipments. Habilitation for German scientists is available.

Additional information can be obtained by contacting:
Huajian Gao, Director and Professor;
Phone: + 49 - 711 - 2095-519; hjgao@mf.mpg.de

The Max Planck Society is an equal opportunity employer. Women are especially encouraged to apply.

Interested applicants should submit a written application including their CV, 2 - 3 references, and a few representative publications to:
Max-Planck-Institut für Metallforschung; Geschäftsstelle;
Seestr. 92; 70174 Stuttgart, Germany

GLOBAL OPPORTUNITIES

Fellowship Program for Postdoctoral Research in Japan

In
Scientific, Technical, Engineering,
and
Medical fields
at National Research Institutes

Details available on web site:
<http://stafellow.jst.go.jp/index.html>

or

Department of International Affairs
Japan Science and Technology
Corporation (JST)



POSTDOCTORAL POSITION IN MOLECULAR PHARMACOLOGY

A Postdoctoral position is available to study the mechanism of cell cycle progression, especially in mitosis. Research areas include studying the mitotic checkpoint as well as the roles of Sgt1 and Skp1 (the SCF ubiquitination complex; Mol. Cell, 4:21-33, 1999; Cell, 86:275-285, 1996) in kinetochore function utilizing yeast genetics and mammalian tissue culture. Applicants must have a Ph.D. in the area of molecular biology. Expertise in cell biology, mammalian tissue culture, biochemistry, or yeast genetics, is highly desirable.

St. Jude Children's Research Hospital (<http://www.stjude.org>) has a highly interactive research environment and state-of-the-art facilities including core laboratories for proteomics, microarray analysis of gene expression, transgenic/knock-out technology, etc.

Send curriculum vitae and three references to: **Dr. Katsumi Kitagawa, Dept. Molecular Pharmacology, St. Jude Children's Research Hospital, 332 N. Lauderdale St., Memphis, TN 38105-2794 USA. E-mail: Katsumi.Kitagawa@stjude.org**

An Equal Opportunity/Affirmative Action Employer.

Assistant/Associate Professors in Medicinal Chemistry

The Division of Medicinal Chemistry and Pharmacognosy, College of Pharmacy, The Ohio State University, invites applications for tenure-track positions in medicinal chemistry at the assistant or associate professor level beginning in the 2001-2002 academic year. Candidates should have a Ph.D. in medicinal chemistry, chemistry, or biochemistry and have postdoctoral experience. Individuals with experience in synthetic medicinal chemistry, natural products chemistry, structure-based drug design, and/or application of proteomics and genomics in medicinal chemistry are of special interest and are especially encouraged to apply. The successful applicant will be expected to develop an independent research program, obtain extramural funding, and actively participate in teaching at the undergraduate, professional and graduate levels. Applicants at the associate professor level are expected to have established an externally funded independent research program. Applicants should submit a letter of application, a complete curriculum vitae, copy of graduate transcripts, a proposed research program, and three letters of reference to: **Dr. Robert W. Brueggemeier, Chair, Division of Medicinal Chemistry and Pharmacognosy, College of Pharmacy, The Ohio State University, 500 West 12th Avenue, Columbus, OH 43210-1291.**

Applications will be processed as received and review of candidates will begin April 15, 2001. The search will continue until the position is filled. The Ohio State University is an equal opportunity educator and employer and specifically invites and encourages applications from women, underrepresented minorities, and armed forces veterans.



The University of Michigan, through the Department of Psychiatry, is seeking instructional and/or clinical track faculty to join the new Michigan Depression Center, a comprehensive, multi-disciplinary, multi-School initiative designed to provide integrated state-of-the-art research, clinical care, training and public education for Depression and related disorders. The Center will be patterned after the national chain of Cancer Centers. The predominant criterion for appointment in the tenure-track is a major commitment to research and teaching. The successful candidate will be expected to initiate or continue a program of pre-clinical, clinical or translational research with adults, children, adolescents or "translational" investigations of selected aspects of molecular psychiatry, genomes, brain imaging, and treatment/prevention strategies. Health services expertise is also being sought. A documented interest in depression research in psychiatry is required as well as statistical and methodological expertise. Evidence of clinical and administrative competence is required as well as a demonstrated ability to publish original research.

Applicants must hold a M.D./Ph.D., or equivalent degrees, must be board-certified in Psychiatry, and either hold or be eligible for a Michigan medical license. Applicants must have a demonstrated promise for an academic career. Salary and rank will depend upon qualifications.

This search is being done in conjunction with the University of Michigan Life Sciences Initiative, a major investment designed to promote growth in cognitive neuroscience, genomics and complex genetics, and chemical and structural biology. The Department of Psychiatry and affiliated institutes at the University of Michigan provide state-of-art research facilities and have strong research traditions in childhood psychopathology.

The University of Michigan offers attractive, comprehensive benefits, a salary commensurate with rank and experience, and start-up funds.

Qualified candidates should forward curriculum vitae and the names of five referees to: **John F. Greden, M.D., Rachel Upjohn Professor of Psychiatry and Clinical Neurosciences, Chair, Department of Psychiatry, 1500 E. Medical Center Drive, Ann Arbor, MI 48109-0704.**

The University of Michigan Medical School is committed to increasing representation of women and members of minority groups among its faculty, and encourages applications.

THE UNIVERSITY OF THE WEST INDIES

CAVE HILL CAMPUS, BARBADOS

Applications are invited for the following post:

PROFESSOR/SENIOR LECTURER IN MICROBIOLOGY

The applicant should have a PhD Degree in Microbiology; experience in formal lecturing and supervision of undergraduate practical classes and the ability to supervise graduate students.

The successful applicant for this post will be expected to assume duties as soon as possible.

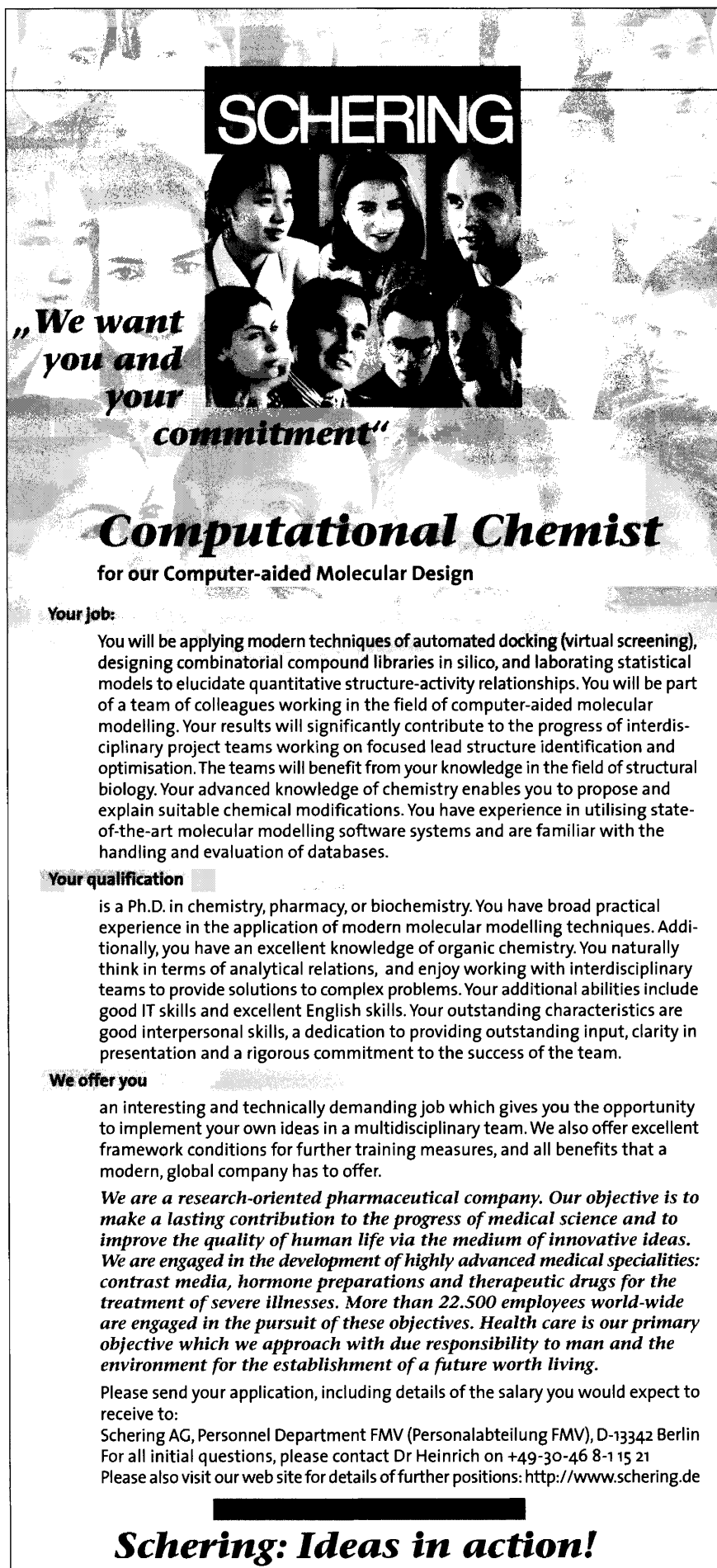
Detailed applications (three copies) giving full particulars of qualifications and experience, biodata and the names and addresses of three referees should be sent to the **Campus Registrar, University of the West Indies, PO Box 64, Bridgetown, Barbados. Telephone: +1 246 417-4067/8; Fax +1 246 417-0330; E-mail: human_resources@uwichill.edu.bb.** To expedite the appointment procedure applicants are advised to request their referees to send references under confidential cover direct to the Campus Registrar without waiting to be contacted by the University. Further particulars for this post including remuneration package are available on request. Further particulars may also be obtained from the Association of Commonwealth Universities (48914), 36 Gordon Square, London WC1H 0PF, UK (email: adverts@acu.ac.uk; fax: 020 7383 0368, tel: 020 7380 6706). Or visit the University's website at www.uwichill.edu.bb.



POSTDOCTORAL POSITIONS

Two NIH funded postdoctoral positions are immediately available for highly motivated individuals to study the molecular organization and function of paranodal junctions in myelinated axons. A mouse model has been generated to study the consequences of loss of paranodal junctions on domain organization and saltatory conduction. Candidates should have prior experience in biochemistry, molecular biology or genetics and have the ability to work in a collaborative atmosphere. Interested candidates are referred to the following publications: Cell 96, 833-845 (1999); TINS 10, 444-449 (1998); Cell 87, 1059-1068 and 1103-1114 (1996).

Please submit a letter stating career goals and curriculum vitae with past research experience and contact information of 3 references, to: **Manzoor A. Bhat, M.S., Ph.D., Cardiovascular Research Institute, Annenberg Bldg. 24-60, Department of Medicine, Mount Sinai School of Medicine. Phone: (212) 241-0033. Fax: (212) 828-4178. E-mail: bhatm01@doc.mssm.edu.** Additional details can be found at our web site: [http:// med.mssm.edu/divisions/cardiology/bhat.html](http://med.mssm.edu/divisions/cardiology/bhat.html)
EOE



SCHERING

*"We want
you and
your
commitment"*

Computational Chemist

for our Computer-aided Molecular Design

Your job:

You will be applying modern techniques of automated docking (virtual screening), designing combinatorial compound libraries in silico, and laborating statistical models to elucidate quantitative structure-activity relationships. You will be part of a team of colleagues working in the field of computer-aided molecular modelling. Your results will significantly contribute to the progress of interdisciplinary project teams working on focused lead structure identification and optimisation. The teams will benefit from your knowledge in the field of structural biology. Your advanced knowledge of chemistry enables you to propose and explain suitable chemical modifications. You have experience in utilising state-of-the-art molecular modelling software systems and are familiar with the handling and evaluation of databases.

Your qualification

is a Ph.D. in chemistry, pharmacy, or biochemistry. You have broad practical experience in the application of modern molecular modelling techniques. Additionally, you have an excellent knowledge of organic chemistry. You naturally think in terms of analytical relations, and enjoy working with interdisciplinary teams to provide solutions to complex problems. Your additional abilities include good IT skills and excellent English skills. Your outstanding characteristics are good interpersonal skills, a dedication to providing outstanding input, clarity in presentation and a rigorous commitment to the success of the team.

We offer you

an interesting and technically demanding job which gives you the opportunity to implement your own ideas in a multidisciplinary team. We also offer excellent framework conditions for further training measures, and all benefits that a modern, global company has to offer.

We are a research-oriented pharmaceutical company. Our objective is to make a lasting contribution to the progress of medical science and to improve the quality of human life via the medium of innovative ideas. We are engaged in the development of highly advanced medical specialities: contrast media, hormone preparations and therapeutic drugs for the treatment of severe illnesses. More than 22.500 employees world-wide are engaged in the pursuit of these objectives. Health care is our primary objective which we approach with due responsibility to man and the environment for the establishment of a future worth living.

Please send your application, including details of the salary you would expect to receive to:
Schering AG, Personnel Department FMV (Personalabteilung FMV), D-13342 Berlin
For all initial questions, please contact Dr Heinrich on +49-30-46 8-1 15 21
Please also visit our web site for details of further positions: <http://www.schering.de>

Schering: Ideas in action!



**Director
Institute for Drug Research
University of Toronto**

The University of Toronto seeks an outstanding scholar and academic leader to become the inaugural Director of the Institute for Drug Research. The Institute has been created jointly by the Faculty of Medicine and the Faculty of Pharmacy to be a preeminent international center for fundamental research in pharmacology and the pharmaceutical sciences and translation into improved therapeutics. Among other strategies, the institute will apply pharmacogenomic and proteomic approaches to identify new drug targets and to understand the basis of individual variation in drug metabolism and drug response.

The Director will be appointed at the rank of Associate Professor or Full Professor with tenure and will have the opportunity to build the Institute by recruiting 7 additional tenure-stream/tenured staff over the next 3 years, including some at the rank of Associate Professor or Full Professor. Startup funds will be available for the Director and for additional recruits. The Director of the Institute also will be Chair of the Faculty of Medicine's Department of Pharmacology and will hold an administrative position in the Faculty of Pharmacy. Currently there are 50 core or cross-appointed professorial staff supervising the research of 100 graduate students in the Department of Pharmacology which has strong ties with the Graduate Department of Pharmaceutical Sciences where 44 professorial staff direct 75 graduate students. The Institute will maintain and enhance the current teaching programs of the Department of Pharmacology including education of professional-degree students in medicine, dentistry and pharmacy as well as B.Sc. specialist students in Pharmacology and Toxicology.

Applications or nominations for the position of Director should include a full CV and names & contact information for at least three referees. Send applications to:

**Search Committee - Director of the Institute for Drug Research
Room 4207
Medical Sciences Building
1 King's College Circle
University of Toronto
Toronto, Ontario M5S 1A8**

The closing date for receipt of applications is 9 April 2001.

The University of Toronto is strongly committed to diversity within its community. The University especially welcomes applications from visible minority group members, women, Aboriginal persons, persons with disabilities, and others who may contribute to further diversification of ideas.

GLOBAL OPPORTUNITIES



**NATIONAL UNIVERSITY
of SINGAPORE**

DEPARTMENT OF COMPUTATIONAL SCIENCE

The National University of Singapore (NUS) invites applications and nominations for a senior academic position in the Department of Computational Science.

The successful candidate will undertake the responsibilities of Head, Department of Computational Science. He is expected to have distinguished academic accomplishments, leadership abilities, administrative abilities and a broad understanding of the various research areas in Computational Science.

The Department of Computational Science at the National University of Singapore is one of the few departments worldwide that offer inter-disciplinary programmes leading to undergraduate as well as post-graduate degrees in computational science. Areas of research activities in the Department include nonlinear dynamics and complex systems, computational statistical and condensed matter physics, computational quantum chemistry and molecular modeling, computational biology and computer aided drug design, computational fluid dynamics, wavelet analysis and application, neural computing and optimization. The Department is supported with some of the most extensive and modern computer facilities available. The Department currently has 8 full time faculty members and some adjunct and visiting staff. It is expected that the Department will grow further.

Nominations and applications supported by a curriculum vitae, research plan and three letters of recommendation should be sent to:

**Associate Professor Wang Jian-Sheng
Chair, Head Search Committee
Department of Computational Science
Faculty of Science
National University of Singapore
3 Science Drive 2
Singapore 117543
Facsimile : (+65) 7746756
E-mail: cscwjs@nus.edu.sg
<http://www.cz3.nus.edu.sg>**

We seek to fill the position as soon as possible. Applications will be considered until the position is filled. Screening will begin on 1 May 2001.

(Only shortlisted candidates will be notified)

**Director of the
Biomedical Program**

The University of Alaska Anchorage (UAA) is soliciting applications for the Director of the Biomedical Program (WWAMI). The WWAMI Biomedical Program is a cooperative arrangement between UAA, the University of Washington School of Medicine (UWSOM), and other states in the WWAMI consortium (Washington, Wyoming, Montana, and Idaho), whereby first-year Alaskan medical students are accepted by UWSOM, but receive their first year of training at cooperating institutions. As Director of the Biomedical Program the applicant is eligible for a senior level faculty appointment at UAA and an affiliate academic appointment with UWSOM. Salary is commensurate with qualifications and experience. The successful candidate must hold a doctorate in a relevant scientific field or an M.D. and have experience commensurate with a senior level academic appointment. Responsibilities of the director include administering and maintaining the overall quality of the first-year medical school curriculum offered at UAA as required by the University of Washington School of Medicine.

He or she must be capable of cooperatively interacting with UWSOM, the local medical community, other departments within UAA and have a clear vision for the program. A background in and understanding of medical school education and pedagogy is desired. The ability to contribute to teaching first year medical students is preferred.

A major responsibility of the director will be to actively support the research and creative efforts of the Biomedical faculty. Other duties include personally counseling and guiding medical students, developing and overseeing the budget, day-to-day administration of the program, and when appropriate, seeking external funding to support the Biomedical Program activities. Ability to be responsive to Alaskan issues and medical concerns is desirable.

Application Procedure: Submit a letter summarizing relevant experience, vision for the program, teaching philosophy, administrative and management style, vita, and names and addresses (including phone numbers and e-mail addresses) of three references qualified to comment upon your abilities to: **University of Alaska Anchorage, Human Resource Services, 3211 Providence Dr., Anchorage, AK 99508.** Visit www.finsys.uaa.alaska.edu/uaahrs or uaa.alaska.edu/biomed for more information. Position is open until filled. Women and minorities are especially encouraged to apply. Applicants must be eligible for employment under the Immigration Reform and Control Act of 1986. Your application with the University of Alaska is subject to public disclosure.

*UAA is an AA/EO Employer and
Educational Institution.*

Postdoctoral Position

Postdoctoral position available immediately at the National Institute on Aging for the study of gene expression in ovarian cancer using Serial Analysis of Gene Expression (SAGE) cDNA arrays and other strategies. Our laboratory is interested in the identification of genes deregulated during ovarian tumorigenesis that may be used as potential targets for diagnosis and/or therapy. Our ongoing SAGE study of gene expression in ovarian cancer has identified a myriad of genes differentially expressed in ovarian cancer, including many novel ones (see Cancer Res. 60; 6281 (2001)). The successful candidate for this position will be involved in the functional characterization of these genes and related pathways. Clinical applications will also be explored. A doctoral degree in molecular biology or related field is required. Interested applicants should send a letter describing research interest and professional goals as well as a resume to:

Pat J. Morin, Ph.D.

Laboratory Biological Chemistry
Gerontology Research Center, NIA
5600 Nathan Shock Drive
Baltimore, MD 21224

Email: Morinp@grc.nia.nih.gov

The National Institutes of Health is an equal opportunity employer



National Institute on Aging

Two Tenure Track Investigators

Child Psychiatry Branch
National Institute of Mental Health
National Institutes of Health

The Child Psychiatry Branch, National Institute of Mental Health is seeking two candidates for tenure track research positions in the field of neurological basis of childhood psychiatric disorders. Candidates should have a Ph.D. degree and postdoctoral training in cognitive neuroscience, neuropsychology, or developmental psychology with an interest in brain imaging or behavioral genetic, or a M.D. degree with training in neurology, pediatrics, pediatric neurology, or child psychiatry, together with expertise in structural and/or functional brain imaging, or drug treatment of disruptive behavior disorders. Candidates are expected to develop independent research programs and will be provided with resources to conduct this research. The research will take place in a multidisciplinary setting. Populations currently understudy in the Branch include healthy children and adolescents as well as those with schizophrenia and attention deficit hyperactivity disorder. Send a curriculum vitae, statement of research interests, and have three reference letters sent by May 1, 2001 to:

Dr. Dennis S. Charney
Chair, Search Committee
Child Psychiatry Branch
National Institute of Mental Health,
Bldg. 10, Rm. 4N-222
9000 Rockville Pike
Bethesda, MD 20892



NIMH
National Institute
of Mental Health

The National Institutes of Health is an equal opportunity employer

The Science of Agricultural Genetics

Pioneer Hi-Bred International, Inc. is the world leader in the discovery, development and delivery of elite crop genetics. We are committed to developing and incorporating both time-tested approaches and cutting edge technologies that will continue to make our products superior to any in the industry.

The following positions are available in our Life Cycle Information Management (LCIM) Department at our Johnston, Iowa offices. The Computational Biology Manager positions described below will be responsible for identifying, developing and implementing computational methods that utilize Pioneer & DuPont's extensive genomic databases. The managers will work as part of a team of researchers interested in applying genomic information (including sequence, RNA and protein expression and functional characterization) to plant improvement. Desirable skills include familiarity with UNIX and programming languages such as Perl, XML, C/C++ or Java. *[The two positions are differentiated in greater detail below.]*

COMPUTATIONAL BIOLOGIST – QUANTITATIVE GENETICS – The ideal candidate will have a strong genetics background with a special interest in relating molecular data to specific plant phenotypes. He/she will help identify and characterize biological relationships that will provide insights into trait components. A Ph.D. in genetics, population genetics, plant breeding or related required. Job Code **PHI/NA77/PSC**

COMPUTATIONAL BIOLOGIST – BIOCHEMISTRY – This manager will have a strong biochemistry background with a special interest in biochemical pathways and macromolecular interactions. He/she will help identify and characterize biological relationships that will provide insights into grain development and composition to promote improved food and feed products. A Ph.D. in biochemistry, molecular biology or related required. Job Code **PHI/NA78/PSC**

PROJECT LEADER – This person will lead the LCIM team providing software support for scientists working in the Trait & Technology Development group in the Crop Genetics R&D Division. He/she will lead efforts to identify software needs for research and then work closely with staff to develop, implement, and support information management solutions. The Project Leader will have the ability to work with software development professionals and lead team efforts. Demonstrated project management skills in working with multidisciplinary groups and managing multiple deadlines along with a Ph.D. in molecular biology/genetics or plant breeding/genetics also required. Job Code **PHI/NA36/PSC**

For consideration, you **must** reference the **Job Code** above and send a scannable resume and cover letter to:

Resume Processing Center
Pioneer Hi-Bred International, Inc.
400 Locust Street, Suite 700
PO Box 14454
Des Moines, IA 50306-3454
or Email: apply@pioneerjobs.com

Visit www.pioneer.com for a detailed description of these and other opportunities.



PIONEER

Pioneer Hi-Bred International, Inc.

Equal Opportunity Employer



Philip Morris U.S.A.

POSTDOCTORAL SCIENTIST

Philip Morris, USA, a leading manufacturer and marketer of consumer products made for adults, seeks **Postdoctoral Scientist** to join our Product Integrity group in Richmond, VA. The postdoctoral program, typically requiring 1-2 years, is designed for candidates who have a solid background in chemistry, *in vivo* or *in vitro* toxicology. It will provide industrial experience in toxicity testing and prepare them for a career as a toxicologist. Training will include exposure to many research projects and specialized contract laboratory testing. Learning via responsibility for reading and interpretation of research and toxicology studies will be supplemented by seminars and attendance at national meetings. Two research programs will be staffed. In the first, the successful candidate will participate in the development and implementation of toxicology and chemistry studies investigating ingredients used in cigarette manufacturing (Job code: 803). In the second program, the candidate will investigate the impact of various materials on smoke chemistry and sensory irritation (Job code: 804).

To qualify, you must have a Ph.D. in Toxicology, or a related field, with emphasis on Inhalation, Genetic Toxicology, Chemistry or Biochemistry. Candidates must have excellent oral and written communication skills and be able to work independently.

We offer competitive pay, excellent benefits and relocation package. Philip Morris, USA is an Equal Opportunity/Affirmative Action Employer (M/F/D/V). We encourage diversity in our workplace. For immediate consideration, please visit our website at: www.philipmorrisusa.com/careers. Select the 'Search Our Jobs' option, select the 'Apply On Line' option, enter job code 'SCI 0101' into the keyword search box, and click 'Apply Now'. If you do not have Internet access, you may mail your resume to: Strategic Staffing Department, Philip Morris USA, P.O. Box 23261, Richmond, VA 23261, Attention MLW. The deadline for application is March 14, 2001.

Philip Morris U.S.A.

**Discover the difference YOU
can make in a child's life...**

Research Scientist Ph.D., Neurosciences

The Research Department at the Alfred I. duPont Hospital for Children is in search of a Ph.D. in the Neurosciences to head the Spinal Cord Injury Laboratory. The primary focus of the lab is to investigate modalities (e.g., pharmacologic) that will be efficacious in the treatment of experimental spinal cord injury. The candidate must possess a doctoral degree in a relevant neuroscience field especially in neurophysiology and/or neuropharmacology. Additional knowledge in tissue regeneration and molecular genetics is encouraged. Expertise in HPLC, cell culture, molecular and biochemical techniques is necessary. The individual must be energetic and have at least 2-5 years experience in the area of experimental spinal cord injury; leadership abilities and capabilities to develop a research team, as well as the desire to work with physicians as a part of the team. He/she will manage the laboratory and its personnel. Qualified candidates will be eligible for an academic faculty appointment at Jefferson Medical College.

The hospital is located on a 300-acre estate in Wilmington, Delaware. We offer the cultural and professional advantages of larger cities, given our convenient location within 30 minutes from downtown Philadelphia, 2.5 hours from Washington, D.C. and 3 hours from New York City. We offer an excellent salary & benefits package. A cover letter, current curriculum vitae and the names of three references should be sent to **Kirk W. Dabney, M.D., Department of Orthopaedic Surgery, Alfred I. duPont Hospital for Children, 1600 Rockland Road, Wilmington, DE 19803. Phone: 302-651-5950.**

Fax: 302-651-5951. E-mail: kdabney@nemours.org.
EOE.

For more information about the Alfred I. duPont Hospital for Children and our employment opportunities, visit our Web site: www.KidsHealth.org

**ALFRED I.
duPont
HOSPITAL FOR CHILDREN**

You will discover...

Professor/Associate Professor

- **Brain Sciences Institute, Melbourne, Australia.**
- **Position no: 22346**

The Brain Sciences Institute (BSI) seeks to appoint an enthusiastic researcher at a senior level to join a team dedicated to the understanding of the relationship between normal and disordered cognitive processes and the neurophysiology of brain function. The successful candidate will take responsibility for the planning and development of a Psychopharmacology of Cognitive Research Program as a major research initiative with the BSI. The candidate will have a strong research record in the Psychopharmacology of Cognitive Functions such as Attention, Working and Long-Term Memory. High level research experience in at least two of the following will be expected: Functional Human Brain Imaging, Psychopharmacology, Neuropsychopharmacology and Pharmacology-EEG. Psychopharmacological experience in conducting clinical trials would be a distinct advantage. The candidate would be expected to take advantage of the Institute's unique functional neuroimaging methods as well as collaborating with other brain research laboratories nationally and internationally.

Applications close: Monday, 30 April 2001

**SWIN
BUR
NE**

SWINBURNE
UNIVERSITY OF
TECHNOLOGY

Position description available at
www.swin.edu.au/jobs or telephone the voice
mail facility on Ph: (+613) 9214 5060 and quote
the relevant Position No. For further information
email: kcrellin@bsi.swin.edu.au



Mayo Clinic Endocrinologist

The Division of Endocrinology, Metabolism and Nutrition at the Mayo Clinic, Rochester, Minnesota, is inviting applicants from a board certified or board-eligible endocrinologist with special expertise in lipid disorders. Individuals who are conducting an active research program in related areas are particularly encouraged to apply.

The Mayo Clinic provides excellent facilities for clinical, epidemiologic, and bench research. A comprehensive and competitive salary and benefits package is being offered. Individuals seeking a productive career in Endocrinology may submit a letter of interest and curriculum vitae to:

K. Sreekumaran Nair, M.D., Ph.D.

Chair, Search Committee

Professor of Medicine

Mayo Clinic

200 First Street, SW

Rochester, MN 55905

Phone: 507/255-6515, Fax: 507/255-4828,

E-mail: nair.sree@mayo.edu

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

DIRECTOR, DIVISION OF CHEMISTRY
National Science Foundation
Arlington, VA

NSF's Directorate for Mathematical and Physical Sciences (MPS) seeks candidates for Director of its Division of Chemistry. The Division supports research and education in chemistry and closely related areas. Information about the Division's activities may be found at <http://www.nsf.gov/mps/chem/start.htm>.

Appointment to this Senior Executive Service position may be on a career basis, or on a 2- to 3-year limited term basis, with a salary range of \$120,261 to \$133,700. Alternatively, the incumbent may be assigned under Intergovernmental Personnel Act provisions. Applicants must have a Ph.D. or equivalent professional experience in chemistry or related field, substantial research administration experience, and demonstrated leadership skills.

Announcement S20010109, with position requirements and application procedures, is located on the NSF Home Page at <http://www.nsf.gov/home/chart/work.htm#hrm>. Applicants may also obtain the announcements by contacting the Executive Personnel and Development Branch on 703-292-8755 (Hearing impaired individuals may call TDD 703-292-8044). Applications must be received by May 15, 2001.

NSF is an equal opportunity employer committed to employing a highly qualified staff reflecting the diversity of our nation.

Take Your Curiosity

To The Edge...

Research and development is the future of any pharmaceutical company. That's why **Pharmacia Corporation** invests more than \$2 billion each year – to discover and develop the medicines that improve the health of people around the world. Our major R&D activities focus in the areas of cancer, arthritis/inflammation, infectious diseases, and disorders of the central nervous system, and we have a presence in ophthalmology, urology, and women's health. It is through exploring new avenues that we break through with world-leading therapeutic compounds and treatments. Take your career to the edge and investigate this challenging opportunity now available in our **Skokie, IL** facility:

RESEARCH BIOLOGIST

Ad Code #01-2431

Working in our Immunotoxicology Laboratory, the selected candidate will be responsible for bench experiments, data management, method development/procedure implementation, and the day-to-day technical operations of the lab. This individual will perform laboratory procedures in Immunotoxicology and flow cytometry; perform independent method development of new assays; and review data as well as draft accurate and complete summaries. To qualify, you must have a Master's degree in Biologic Sciences combined with at least 2 years of experience in in-vitro lab testing demonstrating proficiency in cell culture techniques, functional cell assays and ELISA assay development. Additional requirements include knowledge of immunologic methods, GLPs and in-vivo animal studies; familiarity with all aspects of laboratory method development and validation, biohazard and radioactive lab practices; technical expertise in mRNA and protein isolation and gene expression techniques (i.e., PCR); and strong oral/written communication skills. Proficiency at the bench level of the following assays is desired: Antibody Plaque Forming Cell assay, Natural Killer Cell function, Host Resistance assays, Mixed Leukocyte Response, Popliteal and Local Lymph Node assays.

Your efforts will be rewarded with generous compensation and benefits. For immediate consideration, please respond using our preferred online method at <http://respond.webhire.com/job/id7479-2431-J2> Or you may fax your resume to the **Pharmacia resume processing center**, Attn: #01-2431/Science Magazine, at 520-287-0963. Pharmacia Corporation is an equal opportunity employer; we value a diverse combination of ideas, perspectives, and cultures. EEO/AA EMPLOYER M/F/D/V

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PHARMACIA



Stem Cell Project Leader

PPL Therapeutics is a leading biotechnology company concentrating on protein production in transgenic livestock, xenotransplantation, and stem cell technology.

We are looking for an enthusiastic and adaptable scientist to act as the Project Leader for our newly established stem cell program. Applicants should have demonstrated success in the derivation, characterization, and expansion of pluripotent cells as well as experience in differentiation into specific lineages. An extensive working knowledge of the cell and molecular techniques associated with the study of stem cell biology is desired. A PhD or equivalent post-graduate experience, and at least 3 years experience in project management are required.

PPL Therapeutics Inc. offers an excellent compensation and benefit package, including comprehensive health, dental and life insurance; a contributory (401) K program; and stock options. The company is located in the Blue Ridge Mountains, adjacent to the campus of Virginia Tech. Low cost of living and excellent public schools as well as numerous outdoor recreation opportunities are some of the additional attractions to come to work with us.

Interested individuals should submit a CV and a list of three references to:

Human Resources
PPL Therapeutics Inc.
1700 Kraft Drive, Suite 2400
Blacksburg, VA 24060
E-mail: hr@ppl-therapeutics.com

Tenure Track Investigator

The Intramural Research Program of the **National Institute on Aging**, Baltimore, Maryland, is recruiting a tenure track investigator for the Laboratory of Molecular Genetics (LMG). The individual is expected to develop an independent research program with a basis in DNA repair and an interest in immunology and aging. Candidates with extensive experience in the molecular biochemistry of DNA repair in mammalian models are encouraged to apply. Applicants must have a strong record of scientific accomplishments including publication record, excellence in laboratory research, a history of independent research accomplishments and a reputation in their research area. Current research in the Laboratory is focused on DNA repair in human premature aging syndromes, oxidative DNA damage processing, helicase functions and gene targeting. Applicants should send a curriculum vitae, three letters of reference, and a statement of research interests to: Chair, LMG Tenure Track Search Committee, c/o Pat Boyce, HR Staff Office, National Institute on Aging, NIH, Box 26, 5600 Nathan Shock Dr., Baltimore, MD 20224-6825. Attn: VA#NIA-01-004. For further information E-mail Dr. V. Bohr, Chief, LMG at vbohr@nih.gov.

Applications must be postmarked by April 19, 2001.

NIH is an Equal Opportunity Employer

National Human Genome Research Institute

Program Director
Genome Informatics

The NHGRI is seeking a Ph.D.(or equivalent)-level scientist to manage a new grants program in genome informatics. This program will support a variety of bioinformatics and computational biology projects, including genomic and model organism databases, centers for genomic research, analysis of genomic data, and annotation of the genome. Responsibilities include administering a portfolio of research awards, developing new initiatives, and interacting with researchers and related programs at NIH and other agencies.

Candidates must have experience in bioinformatics, databases, or computational biology and broad knowledge of biology, particularly genetics and genomics. Preference will be given to candidates with management experience. Independence, the ability to work in teams, and strong communication, writing, and organizational skills are required. The position may be filled on a permanent or rotating basis. Salary will be commensurate with experience. See www.nhgri.nih.gov/About_NHGRI/Der/ginform.htm. Contact Elke Jordan, Ph.D., Deputy Director, National Human Genome Research Inst., National Institutes of Health, Bethesda, MD 20892-2033, 301-496-0844, elkej@mail.nih.gov



NIH is an Equal Opportunity Employer



Whitehead Institute

Director, Genome Sequencing Program

As a member of the Executive Committee of the Genome Research Center, provide leadership and vision for the Sequencing Program. Develop and supervise scientific projects, manage project allocation for high-throughput process, troubleshoot production issues, and establish goals designed to place the Center in the forefront of genome sequencing worldwide. PhD in biology or related field and minimum of 10 years of experience in an academic or pharma-biotech environment that includes developing comprehensive scientific models and managing cross-functional projects.

Director, Sequencing Operations

Manage the Genome Research Center's Sequencing Center daily operations to ensure that scientific goals are met within deadlines and budgets, including oversight of the progress and quality of data produced by all sequencing production groups. PhD or MBA, minimum of 5 years of related industry experience managing large cross-functional projects, and functional knowledge of basic molecular biology and scientific processes.

Director, Technology & Development

Provide direction and motivation to the Genome Research Center team responsible for the development of new robotic and biochemical technologies to support fast-paced acceleration of a variety of Center projects. Manage multidisciplinary team of biologists and engineers who provide critical research and development for all Center groups. PhD in biology or related field and a minimum of 5 years of management experience in developing scientific models, preferably in R&D.

We offer competitive salaries and excellent benefits. Please send resumes to **Whitehead Institute, Nine Cambridge Center, Cambridge, MA 02142**, or e-mail to resumes@wi.mit.edu. WI is an equal opportunity/affirmative action employer. For more information about the Whitehead Institute, including additional job postings, please visit: www.wi.mit.edu

STAFF SCIENTIST KEMIN AMERICAS

Kemin Americas is a manufacturer of micro ingredients and preservatives for the food, pet food, and livestock feed industries in North and South America that employs over 700 people worldwide. Kemin Americas is a dynamic growing company with an emphasis on developing new nutritional solutions for an expanding world. The company bases its business on innovation, technology, and service. Sound scientific research and a desire to understand the mode of action at the molecular level are behind all of Kemin's products.

Kemin Americas manufactures a full line of microbial inhibitors, antioxidants, organic minerals, gluconeogenic agents, enzymes, flavors, pigments, surfactants, acidifiers, and crop preservatives. Production facilities, quality assurance laboratories, and research facilities are equipped with state-of-the-art instrumentation and controls.

The ideal candidate will have earned a doctorate in Chemistry plus experience in Phytochemistry and Extraction technology. An emphasis in Organic Chemistry is preferred. The ability to conduct GC/MS, HPLC/MS, and other analytical methodologies along with general wet chemistry is essential. Demonstrated abilities documenting procedures and specifications are necessary. This individual will also have good organizational skills, be innovative, able to handle multiple projects efficiently, and bring a high level of positive energy to the position.

Kemin Americas offers a tobacco free environment. All job offers are contingent on successfully passing a physical and drug screen.

Interested applicants should forward their resumes to:

KEMIN AMERICAS
ATTN: Human Resources
PO Box 70
Des Moines, IA 50301

KEMIN AMERICAS IS AN EQUAL OPPORTUNITY EMPLOYER

DEPARTMENT OF IMMUNOLOGY UNIVERSITY OF TORONTO

Applications are invited for the **Aventis Pasteur Endowed Chair in Human Immunology**

As part of a program to expand the Immunology Department, the University of Toronto, in collaboration with Aventis Pasteur, has established the endowed Chair of Human Immunology. This chair will be filled at the Professorial level and will be located in the Medical Sciences Building on the downtown campus of the University. The candidate should hold a Ph.D., M.D., or equivalent, and have achieved international recognition for his/her research in any area of Human Immunology, which will complement the Department's existing strengths (www.immune.med.utoronto.ca).

Letters of application together with a resume which includes current and long-term research objectives should be sent to: **Search Committee, Department of Immunology, Medical Sciences Building, University of Toronto, Toronto, Ontario, M5S 1A8, Canada.**

Closing date for applications is April 15, 2001.

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.

CHAIRPERSON DEPARTMENT OF BIOCHEMISTRY RUSH MEDICAL COLLEGE

Rush Medical College of Rush University/Rush-Presbyterian-St. Luke's Medical Center is seeking a Chairperson for the Department of Biochemistry. The Department currently has 11 full-time faculty members whose main research focuses on cartilage biochemistry and pathophysiology. The Department is currently supported by a Specialized Center of Research grant (SCOR) from the National Institute of Musculoskeletal and Skin Diseases. The Department is a member of the Rush Arthritis and Orthopaedic Institute.

The Department has between 22 and 25 students in its Ph.D. program and 8-12 postdoctoral fellows from around the globe, supported in part by an NIH Training Grant. Aside from the graduate program, the faculty is responsible for the teaching of medical students and participates in academic administration and community service.

Candidates should be nationally recognized scientific researchers and have both extensive research experience and clinical interest, and should qualify for appointment at a senior academic rank. Nominations or letters of interest that include a curriculum vitae should be sent to:

Gunnar B.J. Andersson, M.D., Ph.D.
Chairman
Department of Orthopedic Surgery
Rush-Presbyterian-St. Luke's Medical Center
1653 West Congress Parkway
Chicago, Illinois 60612

CV's should be submitted no later than September 1, 2001.

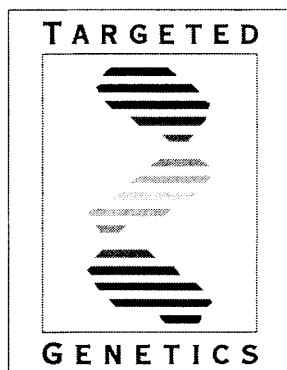
**RUSH IS AN EQUAL OPPORTUNITY/
AFFIRMATIVE ACTION EMPLOYER.**

Molecular Biologist

Located in Sharon Hill, Targeted Genetics Corporation, East Coast Division, is a publicly-held biotechnology company focused on the design, manufacture, and clinical development of gene based therapeutic products for the treatment of human disease. Our continued growth has created an excellent opportunity for a dedicated, highly motivated and well-organized individual to join our team.

In this pivotal role, you will lead the development of vectors for adenovirus and adeno-associated viruses for gene therapy products; direct the design, construction and evaluation of viral vectors and complementing producer cell lines; and work closely with development groups to effectively characterize and transfer viral vector candidates from bench to large scale production. You will also perform vector and cell line engineering; develop screening methods to identify vector candidates; characterize vector candidates; and optimize vector production methods. The ideal candidate will possess a Ph.D. in Virology/Molecular Virology or related field, and 2+ years of industry or academic experience. Experience with adeno-associated virus is desired.

We offer competitive salaries and benefits, matching 401(k), stock options and the opportunity to make significant scientific contributions. To apply, please submit CV, salary history, and three references either by mail to **Targeted Genetics Corporation, East Coast Division, HR, Attn: Job# SCI0309-MB, Elmwood Court Two, 512 Elmwood Avenue, Sharon Hill, PA, 19079, by fax to (610) 522-8548, or by email to schapman@targen.com. EOE**



www.targetedgenetics.com

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CORVAS International is a clinical-stage biopharmaceutical company focused on developing a new generation of drugs to treat cardiovascular, cancer, stroke and other major diseases. The company relies on its internal expertise in protease structure and function, protease inhibition, vascular biology, and combinatorial chemistry in developing new therapeutic drug targets. Our scientists utilize their extensive knowledge of the molecular and cellular mechanisms involved in thrombosis, inflammation, cancer, and other major diseases. We have integrated a multidisciplinary approach combining expertise from both the traditional pharmaceutical and biotechnology industries. We have two compounds in late-stage clinical evaluation and an exciting pipeline of new product opportunities.

STRUCTURAL BIOLOGIST/ MOLECULAR MODELER

You will participate in a multidisciplinary team focused on the discovery of pharmaceutical agents, as well as participate in structure-based drug design. Use your creativity with structural biology and molecular modeling as you address research problems. Candidates should have a PhD in Chemistry, Biophysics, Biochemistry or related with up to 4 years postdoctoral experience, including fundamental knowledge of macromolecular X-ray crystallography. A basic understanding of enzyme function, good written and oral communication skills, and a willingness to work closely in a team environment are essential. Familiarity with computer programming is a plus. Molecular modeling experience is desired.

Corvas is located in the "Biotech Beach" area of La Jolla, CA, with convenient access to UCSD and Scripps. For consideration, please send/fax CV & letter to: Corvas International, Inc., 3030 Science Park Road, San Diego, CA 92121, Attn.: HR; Fax: (858) 455-0457. www.corvas.com. EOE

CORVAS
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USF University of South Florida

The University of South Florida invites nominations and applications for the position of:

Vice President for Research

The University of South Florida invites nominations and applications for the position of Vice President for Research. The chief research officer of the University, the Vice President reports directly to the President and is responsible for the administration, service, and promotion of the USF research program, including the protection of intellectual property and the enhancement of productive relationships among industry, government, the community, and the University.

Established in 1956, USF has secured national and international respect as a leading research university by achieving the highest classification by the Carnegie Foundation, Doctoral/Research University-Extensive. Moreover, in FY99/00, USF researchers were awarded over \$171 million in external funding, a 677% increase in 15 years. With four campuses in the Tampa Bay area, USF has an enrollment of over 36,000 students in 9 colleges and offers baccalaureate degrees in 79 fields, 89 master and specialist programs, 28 doctoral programs including medical sciences, doctor of medicine, nursing, and public health.

USF seeks a visionary leader prepared to guide the University to even greater heights. The Vice President must be committed to fostering excellent research in all fields of scholarly and creative endeavor and have significant administrative experience, demonstrated leadership ability, an established record of research accomplishments, and proven success in securing extramural funding. In keeping with USF's strategic goals, we are seeking an individual with a strong commitment to interdisciplinary research and experience in developing successful partnerships with industry, government, and the community. Applicants must have an earned doctorate and qualify for appointment as a tenured full Professor in an appropriate academic department.

For additional information about USF Research and this position, see <http://www.research.usf.edu>. Please direct applications and nominations to: Dr. Barry Bercu, Chairperson, Search Committee for Vice President for Research, University of South Florida, 4202 E. Fowler Avenue, ADM 200, Tampa, Florida 33620.

Applications should include a current curriculum vitae and a detailed letter describing the candidate's relevant experience and qualifications. Applicant screening will begin on April 23, 2001 and will continue until the position is filled.

The State of Florida has a Public Meeting Law and a Public Records Law and all university searches are conducted under the terms thereof. All meetings of the search committee are publicly announced and conducted. All documents submitted to the committee are treated as open material with the exception of evaluative documents specific to the performance of the faculty of the State University System of Florida concerning health or disabilities.

The University of South Florida is an equal opportunity, affirmative action, equal access institution. For disability accommodations, contact Lorraine Diecidue at (813) 974-5481 at least five working days in advance of need.

www.usf.edu • 4202 E. Fowler Ave, Tampa, FL 33620

nature

the international weekly journal of science seeks to appoint

Two Biology Editors

to join a team dedicated to publishing top quality research in the biological sciences. The successful candidates will play a key role in determining how biological sciences are represented through the selection and preparation of manuscripts for publication and by acting as Nature's interface with the relevant research communities. These are demanding and intellectually stimulating positions, and call for a keen interest in the practice and communication of science.

The ideal candidates will have a strong track record of research in the neurosciences or cell signalling, but highly qualified candidates from other areas of the biological sciences are also encouraged to apply. Applicants should hold or expect shortly to receive a PhD or equivalent degree.

Both jobs are likely to be based in Nature's modern London offices but careful consideration will be given to exceptional US-based candidates for possible location in our Washington DC office. The jobs will involve international travel to meetings and laboratories.

Applicants should send a CV (including their class of degree and a brief account of their research and other relevant experience), a concise discussion of which recent scientific developments they have found particularly exciting (stating why) and a brief covering letter. Mark the application "Biology Editor", and send it to the Editor, Nature, Porters South, 4-6 Crinan Street, London N1 9XW (fax +44 20 7843 4596, e-mail a.ryan@nature.com) as soon as possible and no later than Friday 23 March.

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All Species CEO Search



The goal of the All Species Inventory is to catalog every living species on Earth within one generation (25 years).

We seek an executive who can lead this major scientific mission in cooperation with organizations around the world. This candidate should be a leader with business and fund-raising skills, and a builder with experience in the international biodiversity policy arena. We seek an excellent manager of people, who is able to execute and manage partnerships. Duties entail developing and disseminating innovative new bio-surveying tools and techniques. Gaining the respect of working scientists throughout the world is critical to the task. A Ph.D. in a related science background is ideal, but a great leader or a supremely skilled business person with keen science acumen could succeed as well.

The All Species Inventory has a world-class scientific advisory board, and an aggressive funding schedule under way. See www.all-species.org.

Every once in a while there is a chance to do something grand and good — send a human to the moon, or sequence a genome. For the right person, making the first inventory of all living species on earth is that chance.

Apply to info@all-species.org



POSTDOCTORAL POSITION

A position is available in the Department of Pediatrics for a postdoctoral fellow with an interest in the molecular mechanisms of cancer development. Major emphasis will be on cell-cycle control and regulation of gene expression. Individuals with a strong background in biochemistry or molecular biology, with experience or interest in the use of knockout animals are encouraged to apply. Salary will be determined by the successful candidate's experience. There is also an attractive benefit package. Mayo Clinic Rochester is a non-profit physician led clinical practice integrated with education and research in a unified multi-campus system.

Applications including a CV, summary of past accomplishments and the names of three referees should be sent to:

Dr. Jan van Deursen
Mayo Clinic Rochester
Pediatric and Adolescent Medicine
Guggenheim 10
200 First St. SW
Rochester, MN 55905

email: vandeursen.jan@mayo.edu
See also: <http://www.mayo.edu/research/>

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



Myogen, Inc.

A biotechnology company focused on the discovery and development of innovative therapies for heart muscle disease seeks qualified, motivated individuals:

Senior Scientist, Cardiac Biology

This position will lead an effort focused on the validation of the Company's proprietary set of drug discovery targets for heart failure and the evaluation of lead compounds. A Ph.D. or equivalent in cell biology, molecular biology, or closely related field with 7-10 years experience beyond post-doc is required. Experience in molecular cardiology, cardiac myocyte biology, and cardiac signaling pathways, a strong publication record, and experience in managing both Ph.D. and non-Ph.D. level scientists are necessary.

Senior Scientist, High Throughput Screening

This position will lead an effort to develop, validate and apply high throughput screens for lead compound identification. Ph.D. or equivalent in cell biology, molecular biology, biochemistry or closely related field is required with at least 5 years experience in the development of HT assays, preferably in industry. Requires extensive experience in molecular techniques, cell culture, enzymology, protein chemistry, and a strong publication record.

Scientist, Cell Biology

A Ph.D. level scientist to participate developing cardiac myocyte culture into a robust target and compound validation platform. Requires Ph.D. or equivalent in cell biology, molecular physiology, developmental biology or closely related field and at least 4 years of postdoctoral experience. Experience with basic molecular techniques, isolation and culture of cardiac myocytes, gene transfer into myocytes by transfection or adenoviral infection, signaling pathway manipulation and analysis, and a strong publication record are required.

Scientist, Molecular Biology, Cell Biology

A Ph.D. level scientist to develop high throughput screening assays, with a focus on the Company's proprietary set of drug discovery targets for heart failure. Requires a Ph.D. or equivalent in molecular biology, cell biology, biochemistry or closely related field and at least 4 years of postdoctoral experience. Experience with molecular techniques, mammalian cell culture, transfection, stable cell line generation and characterization, signaling pathway manipulation and analysis, and a strong publication record are required.

Research Associates: Cell Biology, Molecular Biology

with 5-10 years experience in mammalian cell culture and molecular biology. These positions seek qualified individuals with hands-on experience in mammalian cell culture, transfection, reporter analysis, stable cell line engineering/isolation, high throughput assay development, cloning, sequencing, PCR, quantitative RT/PCR, northern-southern hybridization, and westerns. Candidates must have a B.S. or M.S. in science or equivalent experience.

Deadline for application is March 31, 2001. Candidates should send a cover letter and resume to: **Human Resources, Myogen, Inc., 7577 West 103rd Avenue, Ste. 212, Westminster, CO 80021.** EEOE

www.myogen.com



The Faculty of Science of the University of Zürich
invites applications for a

PROFESSORSHIP IN ANIMAL EVOLUTIONARY BIOLOGY

(Preferably in Systematics or Phylogenetics)

Applicants should have an internationally competitive research program and outstanding scientific achievements in evolutionary biology. There are no restrictions on the animal groups investigated. Preference will be given to applicants whose research involves modern methods of phylogenetic analysis.

The professorship (successor to V. Ziswiler) is one of two chairs in the Zoological Museum of the University. The level of appointment from Assistant Professor to Full Professor is open, with later promotion from the junior levels possible. The Museum, which has a public display area and is fully integrated in the teaching of the University, has an extensive collection, an experienced staff and stimulating, close collaboration with colleagues in the recently established Consortium for Evolution and Biodiversity. Experience in museum displays or in furthering the public understanding of science would be advantageous. The successful candidate will establish a research group, participate in teaching basic evolutionary biology and give advanced courses. The successful candidate should expect to acquire proficiency in German within two years.

Applications including a curriculum vitae, a publication list, short summaries of current and future research, of teaching activities and copies of three recent key publications should be sent by April 20th 2001 to Prof. K. Brassel, Dekan der Mathematisch-naturwissenschaftlichen Fakultät der Universität Zürich, Winterthurerstrasse 190, CH-8057 Zürich, Switzerland. At the same time please submit your CV and list of publications to jobsnmf@zuv.unizh.ch.

For further information please contact Prof. Paul Ward, email ward@zoolmus.unizh.ch, Zoologisches Museum, Winterthurerstrasse 190, CH-8057 Zürich.



Dean of the College of Letters and Science

The University of Wisconsin-Milwaukee invites nominations and applications for the position of the Dean of the College of Letters and Science (L&S). The Dean is the chief administrative officer of the College, reporting to the Vice Chancellor for Academic Affairs and Provost, and participating in a shared governance system with faculty and staff.

The University of Wisconsin-Milwaukee (UWM), Wisconsin's major public urban research university, is located in an attractive setting near the shores of Lake Michigan, and only minutes from the center of metropolitan Milwaukee. UWM offers a comprehensive liberal arts and professional education at the undergraduate and graduate levels to its 23,000 students and is one of the two doctoral-granting campuses in the University of Wisconsin System. The College of L&S is the largest academic unit of the University, with approximately 450 full-time faculty and professional academic staff. The College offers 46 undergraduate degree programs, 23 Master's programs, and 12 Ph.D. programs.

Qualifications: The position of Dean requires an earned doctoral degree and experience as a college or university faculty member and administrator. Candidates must be eligible for a tenured appointment as full professor in a department within the College of Letters and Science. Candidates will also be evaluated on their proven ability to:

- Support diversity and inclusiveness in the recruitment, development and retention of faculty, staff and students;
- Promote excellence in undergraduate and graduate education;
- Provide leadership in sustained development of scholarly research and extramural funding;
- Encourage collaboration among the College of Letters and Science, the university, the community, and other institutions of higher education;
- Engage in advancing educational technology;
- Administer effectively within a shared governance system;
- Contribute successfully to initiatives in fundraising and alumni relations.

Application Procedure: This position is available August 1, 2001 but the start date is negotiable. Applications must include a letter of interest, curriculum vitae, and the names, addresses and telephone numbers of five reference persons. Review of applications will begin on March 26, 2001, and continue until a qualified candidate has been selected. Please submit applications or inquiries to:

Professor Corliss Phillabaum, Chair, Search and Screen Committee for Dean of the College of Letters and Science, The University of Wisconsin-Milwaukee, P.O. Box 413, Mitchell Hall 225, Milwaukee, WI 53201 or Fax: 414-229-5198 or E-Mail: tammyh@uwm.edu

We are being assisted in this search by Dr. Jean Dowdall, A.T. Kearney Executive Search. She can be contacted at jean.dowdall@atkearney.com. Additional information about the University of Wisconsin-Milwaukee can be obtained from our Web site at: www.uwm.edu. For more information about the College, please visit: www.uwm.edu/letscl.

UWM is an AA/EEO employer.

POSITIONS OPEN

NEUROSCIENCE POSITION UNIVERSITY OF CHICAGO

The University of Chicago, Division of Biological Sciences, will make a tenure-track faculty appointment for a Neurobiologist beginning the summer of 2001 in the Department of Anesthesia and Critical Care. The level of appointment will be either at the **ASSISTANT** or **ASSOCIATE** level commensurate with the candidate's qualifications. Qualified individuals will join a strong and well-established cadre of NIH-funded M.D. and Ph.D. Researchers in newly remodeled office and laboratory space. Current faculty have interests in the neurobiology of synaptic transmission, cognition, anesthesia, neuroprotection, pain, and drug abuse. Qualified individuals will receive a generous start-up package of office and laboratory space as well as funds for equipment, supplies, and secretarial and technical staff support. The candidates will be expected to implement a nationally recognized, extramurally funded research program that provides opportunities for the training of predoctoral students, Postdoctoral Fellows, and Residents in research. Qualified candidates will also participate in the teaching of medical students, graduate students, and Residents. Applications are solicited from individuals who apply either genetic, molecular, cellular, or systems-level approaches to neurobiology. Although preference will be given to those individuals whose research interests complement and extend those of current faculty, new research directions will be considered as well. Curriculum vitae, a two- to three-page statement of research interests, names of three references, and three representative publications should be mailed to:

Jonathan Moss, M.D., Ph.D.
Department of Anesthesia and Critical Care
University of Chicago
5841 South Maryland Avenue, MC4028
Chicago, IL 60637

FACULTY POSITION IN EARTH AND MARINE SCIENCES

The Division of Natural Sciences and Mathematics at Dowling College invites applications for an anticipated tenure-track position beginning September 2001. Responsibilities include teaching courses in earth and marine sciences and environmental science. Candidates will be expected to develop a strong undergraduate research program and demonstrate commitment to excellence in teaching as well as coordinate the Department of Earth and Marine Sciences. Ample opportunities are available for research-released time from a 12-credit semester teaching load. A Ph.D. is required. Candidates should submit a letter of application, curriculum vitae, statement of teaching philosophy, description of research interests, transcripts, and three letters of recommendation to:

Earth and Marine Sciences Search Committee
c/o Director of Human Resources
Dowling College
Oakdale, NY 11769-1999
E-mail: carrollb@dowling.edu

An Equal Opportunity/Affirmative Action Institution.

WETLAND PLANT ECOLOGIST: Coastal Carolina University is accepting applications for the position of **ASSISTANT PROFESSOR** in the College of Natural and Applied Sciences. This is a full-time, tenure-track position available for fall 2001. Ph.D. required. Responsibilities include teaching introductory biology and appropriate upper-level courses. The successful candidate is expected to develop a research program that includes undergraduate majors. Each applicant should submit a letter of application; curriculum vitae; a statement of teaching philosophy and research interests; and names, addresses, and telephone numbers of three references to: **Dr. Joseph Pinson, Chair, Department of Biology, Coastal Carolina University, P.O. Box 261954, Conway, SC 29528-6054.** Screening of the applicants will begin immediately and will continue until the position is filled. *Coastal Carolina University is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN



POSITION IN MUSCULOSKELETAL GENETICS St. Gile's Chair in Pediatric Musculoskeletal Genetics

The Hospital for Special Surgery seeks a dynamic leader to direct a significant program in human musculoskeletal genetics. The successful candidate will be an internationally recognized **SCIENTIST** with an outstanding record of extramurally funded research in the field of orthopaedic or rheumatologic genetics. Areas of particular interest include congenital deformities, juvenile osteoporosis, scoliosis, juvenile rheumatoid arthritis, and lupus. The Chair will be responsible for recruiting an active research team and will supervise other ongoing genetic research programs at the hospital. Competitive salaries and start-up funds are available. A new state-of-the-art laboratory is available and will be furnished to meet the particular needs of the Chair. The Hospital sees 13,000 patients with orthopaedic and rheumatologic conditions per year, thus providing access to a large amount of patient material. Registries for lupus, SLE, RA, and scoliosis already exist. A molecular biology core facility with ABI 377 sequencer, a WAVE mutation detection instrument, and other standard equipment is available.

The Hospital for Special Surgery has formal ties with Weill (Cornell University) Medical College and Graduate School of Medical Sciences and also with the Sibley School of Mechanical and Aerospace Engineering at the Cornell Ithaca Campus. We are part of a tri-institutional community that includes Rockefeller University and Memorial-Sloan Kettering, providing access to related programs in cancer and medical genetics and to graduate and medical students. Faculty at the Hospital for Special Surgery generally hold appointments in the medical and graduate school. It is anticipated that the new Chair will have close interactions with these programs.

Applicants with an M.D. and/or Ph.D. degree should submit curriculum vitae with complete bibliography and funding history, a detailed statement of research and leadership accomplishments, and an outline of future research plans to:

Ms. Pamela Quigley
Secretary to the Search Committee
Hospital for Special Surgery
535 East 71st Street
New York, NY 10021
E-mail: quigley@hss.edu

Review of applications will begin on March 15, 2001, and continue until the position is filled.

ASSISTANT PROFESSOR, BIOLOGY DEVELOPMENTAL BIOLOGIST

Develop and teach a general biology and developmental biology lecture/laboratory and other courses as required, participate in development of a Master's in biotechnology, develop an active research program supported by external funding and involving undergraduates, and participate in departmental and college committees and activities. Ph.D. in biology or related field and a strong commitment to undergraduate/graduate teaching, research, and service required; postdoctoral experience preferred. For further information, see **website: www.natsci.york.cuny.edu**. Please reference Job Code B10DEV. Salary: \$32,703 to \$57,049. Salaries commensurate with salary history and experience.

Send three copies of application (cover letter; résumé; and the names, addresses, and telephone numbers of three references) including position code by March 30, 2001, to: **Ms. Kimberly Smith, York College, Room 2H05, 94-20 Guy R. Brewer Boulevard, Jamaica, NY 11451. FAX: 718-262-2717.** Review of applications begins immediately.

POSITIONS OPEN

MARINE CONSERVATION BIOLOGY

Duke University's Marine Laboratory and the Division of Coastal Systems Science and Policy of the Nicholas School of the Environment and Earth Sciences (NSEES) seek applications for a tenure-track **ASSISTANT** or **ASSOCIATE PROFESSOR** in marine conservation biology. We are specifically interested in candidates who conduct research on marine protected species. This position involves instruction and mentoring in the undergraduate, professional, and graduate degree programs as well as active participation in programs of the Marine Laboratory and the Division of Coastal Systems Science and Policy. Specifically, this faculty member would be responsible for teaching a senior/first-year graduate-level course in marine conservation biology and another course in his/her specialty. The person hired will also be expected to develop a strong extramurally funded research program and to establish linkages to appropriate university and external programs and agencies. The successful candidate will join an active faculty at the Duke University Marine Laboratory in Beaufort, North Carolina. To apply, please send curriculum vitae, statement of research and teaching interests, and three letters of reference to: **Dr. Larry B. Crowder, Chair, Marine Conservation Search Committee, Duke University NSEES Marine Laboratory, 135 Duke Marine Laboratory Road, Beaufort, NC 28516-9721 U.S.A.** The closing date for applications is April 15, 2001. Detailed information about the Nicholas School and the Marine Laboratory can be obtained at the following websites: <http://www.env.duke.edu>; <http://www.env.duke.edu/marinelab/marine.html>. *Duke University is an Equal Opportunity Employer. Women and minorities are encouraged to apply.*

SCIENTIST POSITIONS University of Kentucky

Two Scientist positions are available in a state-supported biotechnology mission examining development of new crops for "molecular farming" and entirely new applications of the tobacco plant. This is a unique opportunity to lead exciting research projects with excellent laboratory facilities, project budgets, and technical support. Position SP25810: plant gene discovery. Employ genomics technologies (existing and novel) to the discovery of plant genes appropriate to the development of disease resistance, herbicide resistance, stress tolerance, and/or other performance traits in plants. Position SP27692: novel transgenic plants. Develop and investigate transgenic plants expressing novel genes for the above performance traits and for the accumulation of new products. Both positions require a Ph.D. in a relevant field of plant science with experience in plant molecular biology or transformation. For more information, contact: **Dr. H. Maelor Davies; e-mail: mdavies@pop.uky.edu**. Applications should arrive no later than April 20, 2001, at: **Human Resources, 21 Scovell Hall, University of Kentucky, Lexington, KY 40506** referencing above position numbers. *An Equal Opportunity Employer.*

TENURE-TRACK ASSISTANT/ ASSOCIATE PROFESSOR Fisheries Biology

Full-time tenure-track position. Ph.D. required at time of appointment. Candidate must demonstrate interest and ability to successfully teach undergraduates and maintain an active research program that involves both undergraduate and graduate students. Dedication to superior teaching is a tradition at Humboldt State University. Applicants should demonstrate an expertise in ichthyology with the ability to teach additional fisheries courses as well as scientific writing. Submit curriculum vitae, three letters of reference, and transcripts to: **Dr. Tim Mulligan, Chair, Department of Fisheries Biology, Humboldt State University, Arcata, CA 95521. Telephone: 707-826-3951.** Applications accepted until 6 April 2001 or until position is filled. *Humboldt State University is an Equal Opportunity/Affirmative Action/Title IX Employer.*



FOOD SAFETY AND INSPECTION SERVICE, FOOD SAFETY FELLOWS PROGRAM

"Linking the Science of Today
with Food Safety"

The FSIS Food Safety Fellows Program has openings for three Fellows to work on areas of special interest to the Office of Public Health and Science (OPHS). Fellows will concentrate in either Risk Assessment, Microbiology or Epidemiology and work on public health and food safety related issues of emerging foodborne pathogens such as *E. coli* O157:H7, *Listeria monocytogenes*, *Campylobacter*, *Salmonella* or *Yersinia* in meat, poultry and egg products. Fellows will have the opportunity to work with other Divisions within OPHS, offices in FSIS, as well as counterparts in other government agencies.

For more information on how to apply, visit our website, <http://www.fsis.usda.gov>, or call Tamar Lasky, Ph.D., Acting Director, Fellows Program (202) 690-6409.

*USDA is an Equal Opportunity
Provider and Employer.*

UCR/UCLA THOMAS HAIDER PROGRAM IN BIOMEDICAL SCIENCES UNIVERSITY OF CALIFORNIA, RIVERSIDE

MOLECULAR MECHANISMS OF HUMAN DISEASE

The Division of Biomedical Sciences at the University of California, Riverside currently has two tenure-track faculty positions open at the Assistant Professor level for individuals wishing to join a group of multidisciplinary researchers investigating the molecular mechanisms of human disease. Truly outstanding applicants at the senior level (Associate and Full Professors) will also be considered. We wish to recruit faculty studying basic cellular biology or molecular/genetic regulation in the context of cardiovascular disease, cancer or immunology [involving Golgi, ER membrane protein and lipid signaling pathways]; transport physiology; mechanism-based therapeutics; or employing animal models of human disease. Strengths within the Division include cardiovascular disease (LDL and shear stress), cancer (tumor promotion and UV carcinogenesis) and endocrine disease. We are also interested in recruiting interactive faculty employing modern molecular biological techniques to study gene regulation with micro array technology or other approaches. Highly competitive start-up funds and laboratory space will be available for successful applicants. All new faculty will be expected to obtain substantial extramural funding. (Senior faculty applicants would be expected to have significant current funding.)

The Division of Biomedical Sciences administers a joint accelerated 7-year B.S./M.D. program with the University of California at Los Angeles. The faculty teach the first two years of the medical school curriculum. Faculty in the Division are expected to maintain a vigorous research program and to contribute to medical and graduate teaching programs. The program is seeking investigators who can provide teaching expertise in major medical school courses in immunology, neurosciences, physiology, virology, gross anatomy and pathology. Initial review of applications will begin on receipt of applications and the positions will remain open until filled.

Interested investigators should submit an application including: a curriculum vitae, a description of research history and future directions, a history of the status of current funding, teaching interests and the names of three references. Please include your email address and fax number to: Chairman, Search Committee, c/o S. Miller, Division of Biomedical Sciences, University of California, Riverside, California 92521-0121. FAX: (909) 787-5504, Email: craig.byus@ucr.edu. This ad and further information is available on our website: http://www.biomed.ucr.edu/news/current_positions.htm

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

BIOTECH

Science That Impacts Lives Is Bound To Change Your Own

While many companies promise products or careers that "make a difference," Amgen truly delivers. We're the company that develops world-renowned biopharmaceutical products that positively impact lives. At Amgen you're sure to find an environment that inspires and challenges you to reach your fullest potential. Currently, we seek the following positions for our research facility in **Boulder, CO:**

Research Scientist - Biotechnology, Chemistry, Nucleic Acids Chemistry, Laboratory Automation

Requirements include a Ph.D. in Chemistry, Biochemistry or a related field and 0-5 years of postgraduate experience in nucleic acids research. Thorough understanding of automated solid phase synthesis techniques.

Research Associate/Associate Scientist - Biotechnology, Cell Biology, Molecular Biology, Quantitative Biology

Laboratory experience in tissue culture and standard molecular biology techniques is essential. Experience using standard molecular biology software as well as word processing and database applications is expected. Requires a Bachelor's Degree in Molecular or Cellular Biology, Biochemistry or a related field.

Research Associate/Associate Scientist - Biotechnology, Organic Chemistry, Peptide Chemistry

Requires a Bachelor's or Master's degree in Organic or Medicinal Chemistry and typically 2 or more years experience in organic synthesis with an emphasis on amino acid transformation, peptide mimetics and heterocyclic templates. Extensive knowledge of modern synthetic organic chemistry. Hands on experience with modern analytical and purification techniques including NMR, mass spectrometry and HPLC.

Amgen professionals enjoy a highly competitive salary and a benefits package that includes bonus and stock plans. Please email your resume to co.resumes@amgen.com (indicating position of interest - #718 as the subject) or mail your resume to: **Amgen, Human Resources, position of interest - #718, AC-4C, 4000 Nelson Road, Longmont, CO 80503.**

www.amgen.com

EOE/AA Employer M/F/D/V

AMGEN

CLINICAL SCIENCES: RESTORATIVE DENTISTRY Faculty of Dentistry University of Toronto

The Faculty of Dentistry, University of Toronto invites applicants for a senior full-time position in Restorative Dentistry and allied fields within the multidisciplinary Department of Clinical Sciences. The primary responsibilities of the person selected will be to develop an outstanding and innovative research programme in biomaterials/bioengineering and to engage in and promote research and evidence-based advances in the relevant teaching programmes of the Faculty. This area is a field of research emphasis for the Faculty and the University of Toronto under the Canada Research Chairs programme, and the successful candidate will be nominated for a Canada Research Chair. Applicants must comply with the following requirements: (i) have an advanced research degree, preferably a Ph.D. (or equivalent), and evidence of high-quality research accomplishments as a principal investigator in this area; (ii) have demonstrated teaching and clinical expertise in this area; and (iii) be eligible to practice Dentistry in the Province of Ontario.

Rank, tenure status, and salary would be commensurate with the candidate's qualifications and academic accomplishments. Extramural private practice privileges are permitted one day per week. The University of Toronto is strongly committed to diversity within its community. We especially welcome applications from visible minority group members, women, Aboriginal persons, persons with disabilities, and others who may add to the diversity of ideas.

Applicants should arrange for three reference letters, as well as a detailed curriculum vitae, to be received by May 7, 2001 at the following address:

Professor George A. Zarb
Associate Dean
Department of Clinical Sciences
Faculty of Dentistry
University of Toronto
124 Edward Street
Toronto, Ontario
M5G 1G6

For additional information regarding the position please contact Dr. G. A. Zarb: telephone (416) 979-4930, Ext. 4424, email: g.zarb@utoronto.ca

POSITIONS OPEN

TENURE-TRACK FACULTY POSITIONS

Immunology

The newly created Division of Immunology at the University of Connecticut Health Center seeks highly qualified Researchers at the **ASSISTANT/ASSOCIATE PROFESSOR** levels. This recruitment is part of an ongoing strategic plan that includes initiatives in immunotherapy, microbial pathogenesis, genetics and developmental biology, and neuroscience. Although all areas of immunology will be considered, of particular interest are Scientists using molecular and cellular approaches to study immune response to infection or immune system development. Salary and start-up funds are highly competitive. Outstanding core facilities include flow cytometry, transgenics, imaging, molecular biology, and mass spectroscopy. Applicants must have a Ph.D. and/or an M.D. and a quality publication record. For the Associate Professor level, applicants should have a record of substantial productivity and extramural funding. Please submit curriculum vitae, two-page summary of research interests, and the names of three references to: **Leo Lefrançois, Ph.D., Chief, Division of Immunology, Department of Medicine MC1319, University of Connecticut Health Center, 263 Farmington Avenue, Farmington, CT 06030-1319. E-mail: llefranc@neuron.uchc.edu.** For further information on UCHC, please visit website: www.uchc.edu.

ASSISTANT/ASSOCIATE PROFESSOR PHARMACOLOGY

The Division of Pharmacology, The Ohio State University, College of Pharmacy, invites applications for the tenure-track position of Assistant/Associate Professor of Pharmacology beginning September 2001. Qualified candidates should have a Ph.D. in pharmacology, toxicology, or a closely related biomedical field as well as postdoctoral experience. Areas of high priority include biochemical, molecular, or cellular studies in the areas of pharmacology or toxicology. This is a tenure-track position with excellent prospects for an individual committed to scholarly research and a willingness to work in a collaborative environment within the university health science community. The individual selected will be expected to maintain an extramurally funded research program and to participate in the teaching responsibilities of the Division. Candidates should provide a letter of application, curriculum vitae, and a description of research interests. Additionally, candidates should arrange to have three letters of recommendation sent separately. Interested individuals should contact: **Ralf G. Rahwan, Ph.D., Chair of Search Committee, Division of Pharmacology, College of Pharmacy, The Ohio State University, 500 West 12th Avenue, Columbus, OH 43210-1291.** *Ohio State University is an Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITION INFECTIOUS DISEASES AND MICROBIOLOGY

The University of Chicago invites applications for a faculty position in the Department of Medicine's Section of Infectious Diseases and the Committee on Microbiology. This search is aimed at identifying outstanding Investigators in virology. Applications at all faculty levels (**FULL, ASSOCIATE, or ASSISTANT PROFESSOR**) will be considered. Applicants must have an M.D. degree with Board eligibility or certification in infectious diseases and a proven record of accomplishment in the study of virology. We are interested in developing a research program in retrovirology and human retroviral diseases; however, Investigators studying other human viruses also will be considered. The University of Chicago offers excellent research facilities and opportunities for scientific interactions. Applications with curriculum vitae, statement of research interests, and at least three letters of recommendation should be submitted to: **Dr. Olaf Schneewind, Committee on Microbiology, the University of Chicago, 920 East 58th Street, Chicago, IL 60637.** Applications should be received by August 1, 2001. *The University of Chicago is an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR AGING RESEARCH

The Geriatric Research, Education, and Clinical Center (GRECC) at the Veterans Administration Palo Alto Health Care System and Stanford University School of Medicine are seeking highly qualified applicants for the position of **ASSISTANT or ASSOCIATE PROFESSOR** (University tenure track) to pursue research in the study of cellular and molecular mechanisms of aging or age-related diseases. Of particular interest is the application of genetic and *in vitro* models to the studies of aging. Applicants must have an M.D. or equivalent degree; must possess current, full, and unrestricted license to practice medicine, and must be Board certified by an American specialty board. Individuals should have a strong record of accomplishment and a solid publication record in a relevant biomedical field. In addition to conducting an active research program, it is expected that the appointee will participate in clinical and educational activities within an appropriate clinical service, supervising residents and medical students and participating in departmental and medical center teaching programs. The appointee will also be expected to play a leadership role in the greater community of research in aging at Stanford University. Applicants should send their curriculum vitae and the names, addresses, telephone numbers, and e-mail addresses of three references to:

**Thomas A. Rando, M.D., Ph.D., Director
GRECC (182B)
VA Palo Alto Health Care System
3801 Miranda Avenue
Palo Alto, CA 94304**

VA Palo Alto is an Equal Opportunity Employer. Stanford University is committed to increasing representation of women and members of minority groups on its faculty and particularly encourages applications from such candidates.

ASSISTANT PROFESSOR, quantitative wildlife ecology/biometrics: tenure-track position at The University of Montana. Ph.D. in quantitative ecology, biometrics, or related field required; postdoctoral experience preferred with a strong biometrics background and record of publications and grants. The applicant should apply innovative analytical approaches and sampling design skills to research and teaching in wildlife biometrics/sampling design and population ecology. Screening begins March 30, 2001. Submit curriculum vitae, research and teaching interests, recent publications, transcripts, and three reference letters (under separate cover) to:

**L. Scott Mills, Chair
Quantitative Ecology/Biometrics
Search Committee
Wildlife Biology Program
School of Forestry
The University of Montana
Missoula, MT 59812
Telephone: 406-243-5552**

Equal Employment Opportunity/Affirmative Action.

The Department of Biology at Gordon College, Wenham, Massachusetts, seeks candidates for a full-time, tenure-track position at the **ASSISTANT or ASSOCIATE PROFESSOR** level to begin August 2001. Candidates must have a mature Christian faith, which is a springboard for their academic pursuits; be competent teachers and well-trained scholars, knowledgeable in their field; and contribute to the diversity of talents, insights, and perspectives needed within a Christian academic community. Primary teaching responsibilities will be in the marine sciences, directing the Marine Biology Institute and teaching zoology or animal physiology. Curriculum vitae and two-page statement of educational philosophy should be directed to: **Dr. Mark Sargent, Provost, Gordon College, 255 Grapevine Road, Wenham, MA 01984. Telephone: 978-927-2603, Extension 4206; FAX: 978-524-3726; e-mail: edmonds@hope.gordon.edu; website: www.gordon.edu.** *Gordon College is an Equal Opportunity Employer and seeks women and minority applicants.*

POSITIONS OPEN

INVESTIGATOR, ENZYMOLOGY

GlaxoSmithKline, an international producer of pharmaceuticals and consumer health care products, is seeking an individual with a background in enzymological and biochemical antibacterial research to serve as Investigator at its research and development facility in Collegeville, Pennsylvania. Principal duties include conceiving, planning, initiating, and directing enzymological and biochemical antibacterial research, particularly in the area of bacterial fatty acid biosynthesis and nucleotide phosphorylation with the aim of determining the kinetic mechanisms of component enzymes and identifying novel compounds that inhibit bacterial targets.

Minimum requirements are a Ph.D. in biochemistry or microbiology and three years of experience in the job offered or three years of experience in biochemical and enzymological research, which shall include experience in (1) analyzing kinetic and catalytic mechanisms using steady-state and presteady-state kinetic techniques and inhibition studies; (2) using rapid-quenche and stopped-flow techniques and spectroscopic techniques including NMR and CD spectroscopy; (3) preparing enzymatic assays employing fluorescence, luminescence, and radio-labelled assay formats; (4) characterizing proteins, protein-ligand, and protein-protein interactions using biochemical methods and techniques including gel electrophoresis, FPLC and HPLC chromatography, and UV/Vis and fluorescence spectroscopy techniques; and (5) analyzing protein structure/function relationships using mutagenesis and computer modeling software programs such as GCG, InsightII, and Quanta.

GlaxoSmithKline offers a competitive compensation/benefits package. For confidential consideration, please forward your résumé and salary requirements to: **GlaxoSmithKline Pharmaceuticals, Attention JO-IE, Mail Code UP1345, 1250 South Collegeville Road, Collegeville, PA 19426-0989.** *We are an Equal Opportunity Employer; Minority/Female/Disabled/Veteran.*

ASSISTANT/ASSOCIATE PROFESSOR (RESEARCH) AGING RESEARCH

The Geriatric Research, Education, and Clinical Center (GRECC) at the Veterans Administration Palo Alto Health Care System and Stanford University School of Medicine are seeking highly qualified applicants for the position of **ASSISTANT or ASSOCIATE PROFESSOR** (Research) to pursue research in the study of cellular and molecular mechanisms of aging or age-related diseases. Of particular interest is the application of genetic and *in vitro* models to the studies of aging. Applicants should have a Ph.D., M.D., or equivalent degree and should have a strong record of accomplishment and a solid publication record in a relevant biomedical field. The appointee will be expected to participate in medical center and university teaching programs and to play a leadership role in the greater community of research in aging at Stanford University. Applicants should send their curriculum vitae and the names, addresses, telephone numbers, and e-mail addresses of three references to:

**Thomas A. Rando, M.D., Ph.D., Director
GRECC (182B)
VA Palo Alto Health Care System
3801 Miranda Avenue
Palo Alto, CA 94304**

VA Palo Alto is an Equal Opportunity Employer. Stanford University is committed to increasing representation of women and members of minority groups on its faculty and particularly encourages applications from such candidates.

Carnegie Mellon, Department of Engineering and Public Policy, has **FACULTY OPENINGS** for technically skilled candidates with policy research interests in biotechnology, information and communication technology, modern electric power, technology policy, and related issues. Joint positions possible with traditional departments. Details at website: www.epp.cmu.edu. Résumés, papers, and references to: **Granger Morgan, EPP, Carnegie Mellon, Pittsburgh, PA 15213 U.S.A.**

**University of California, Davis
School of Medicine
Department of Psychiatry and the M.I.N.D. Institute**

Position #3082 – Director, Pediatric Neuroimaging. The UC Davis Department of Psychiatry and the M.I.N.D. (Medical Investigation of Neurodevelopmental Disorders) Institute seek a faculty candidate with research expertise in the area of pediatric neuroimaging to serve as Director, Pediatric Neuroimaging at the M.I.N.D. Institute. The new faculty member will be tenured at the rank of Associate / Full Professor in the ladder rank series. The candidate must hold an M.D. and/or Ph.D. degree and have a demonstrated record of solid academic accomplishment including ability to compete for extramural research support. The successful candidate will preferably have expertise in structural and/or functional magnetic resonance imaging and will be expected to develop a comprehensive pediatric neuroimaging research program focused on the analysis of autistic spectrum and other neurodevelopmental disorders. Candidates with M.D. degrees must be licensed in California or be able to obtain a California license. UC Davis has made a major commitment to neuroscience research and the Department of Psychiatry will expand its neuroimaging program in coordination with the overall growth of pediatric clinical neuroscience research at the M.I.N.D. Institute. The program will be located in 7000 s.f. of a new research building under construction for the M.I.N.D. Institute that should be completed in late 2002. A new neuroimaging facility is also being developed, to include a high-field, 3T MRI magnet, anesthesia and recovery rooms, an MRI simulator, and office and laboratory space sufficient for support personnel to carry out the program. The Department of Psychiatry and the M.I.N.D. Institute will provide a generous research start-up package to the investigator and ongoing support for the development of a first-rate pediatric neuroimaging program.

Please send curriculum vitae, a letter summarizing past and future research directions, and the names of three references to: Search Committee – Position #3082 (Pediatric Neuroimaging), Department of Psychiatry, UC Davis Medical Center, 2230 Stockton Boulevard, Sacramento, CA 95817. Applications will be accepted until the position is filled, but not later than December 31, 2001. The University of California, Davis, is an affirmative action / equal opportunity employer.

<http://psychiatry.ucdavis.edu/>

**DEPARTMENT OF IMMUNOLOGY
UNIVERSITY OF TORONTO**

**Applications are invited for
Two Tenure Track Positions**

As part of a program to expand the Immunology Department, the University of Toronto has established two tenure track positions to be located in the Medical Sciences Building on the downtown campus of the University of Toronto. While we are particularly interested in candidates using infectious disease models to study immunity, the incumbents' research can be in any area of basic Immunology that will complement the Department's existing strengths (www.immune.med.utoronto.ca). The incumbents will be expected to mount an original, competitive, and independently funded research program, and to have a commitment to undergraduate and graduate education in Immunology. Candidates must have a Ph.D. or equivalent, postdoctoral experience, and an established record of research accomplishment. The appointments will be at the Assistant Professor level.

Letters of application together with a resume which includes current and long-term research objectives and the names and addresses of three referees should be sent to: **Search Committee, Department of Immunology, Medical Sciences Building, University of Toronto, Toronto, Ontario, M5S 1A8, Canada.**

Closing date for applications is April 15, 2001.

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.

RENESEN LLC

Renessen is a unique joint venture between Cargill and Monsanto, focusing on feed and processing. We combine the expertise of Monsanto and Cargill with our vision of discovering and delivering the best food for our world.

TECHNICAL LEAD

We are looking for a dynamic professional to partner with the existing lead in **Davis, California**. You will work in a team environment to provide technical leadership to our Oils team, ensuring that all aspects of the research are on track towards successful commercialization of the products. Our project teams are charged with discovering and developing transgenic plant improvements aimed at the animal feed and processing industries. The Technical Lead will have an emphasis on oils biotechnology and processing technology to produce products.

We are seeking a scientific professional with a PhD in Biochemistry, Life Sciences or Genomics and 5+ plus years of post-doctoral experience, preferably in biotechnology, plant physiology or animal metabolic science. This position requires some travel. The successful candidate will have a minimum of two years of project leader experience on a R&D team. Oils or Corn research, industry experience and metabolic engineering would be an asset. This position is also responsible for developing a Renessen technical resource network through relationships with universities and institutions.

We offer a competitive salary and benefits package, including short and long term incentive plans, 401(k) plan and tuition reimbursement. EEO/AA Employer M/F/D/V.

Please apply to Human Resources at:

Email: human.resources@renessen.com

Fax: (847) 457-5173

For more information on our company, you can visit our website at www.renessen.com.



RENESEN

Faculty Position in Virology and Cancer

**University of Wisconsin - Madison
McArdle Laboratory for Cancer Research
and Institute for Molecular Virology**

The Institute for Molecular Virology and the McArdle Laboratory for Cancer Research are seeking outstanding candidates for a joint, tenure-track, assistant professor position in the area of cancer virology. Applicants should be interested in using basic research in virology to understand processes governing the molecular basis, prevention and/or therapy of cancer. The position provides access to a variety of shared facilities, including full resources for molecular and cell biology, a BL-3 facility for work with pathogenic viruses, and superb animal facilities for mouse genetics, gene-knockouts and transgenic animals. The successful applicant will also participate in excellent, well-funded graduate and post-graduate training programs.

Applicants should submit a curriculum vitae with publication list, a 2-3 page summary of research accomplishments and future research plans, and have 3 qualified individuals send letters of evaluation to: Dr. Paul Ahlquist, Search Committee Chair, Institute for Molecular Virology, University of Wisconsin Madison, 1525 Linden Drive, Madison, WI 53706-1596; Tel: (608) 263-5916. Applications received by May 1, 2001 will be assured full consideration.

The University of Wisconsin is an equal opportunity/affirmative action employer. Minority and women candidates and all other qualified persons are encouraged to apply. Under Wisconsin statutes, names, positions and addresses of applicants and nominees may be subject to release upon request.

POSITIONS OPEN



FACULTY POSITIONS VASCULAR BIOLOGY CENTER

Applications are invited from highly qualified individuals with a Ph.D. and/or M.D. degree in a biomedical science for two tenure-track positions at the level of **ASSISTANT** or **ASSOCIATE PROFESSOR** in the Vascular Biology Center of the Medical College of Georgia. The Vascular Biology Center (website: <http://www.mcg.edu/centers/VBC/index.html>) is a unit of the School of Medicine consisting of 10 full-time faculty members with active, funded interests in the areas of nitric oxide, endothelin, renin angiotensin systems, and growth factors. The successful applicants will establish an active, extramurally funded research program that will complement the current interests of the Center faculty and/or expand into new areas of research in vascular biology. The applicant will also participate in teaching of medical, graduate, and/or allied health students and in the training of Postdoctoral Fellows. Excellent opportunities exist for collaborations with other interdisciplinary groups on campus including the Georgia Prevention Institute and the Sickle Cell Center, as well as faculty in basic and clinical science departments. Competitive salaries, excellent start-up funds, and newly renovated laboratory space will be provided. Applications including curriculum vitae; statement of research interests; and names, addresses and telephone numbers of three references should be sent to: **Chair of the Search Committee, Dr. Leslie C. Fuchs, Associate Professor, Vascular Biology Center, Medical College of Georgia, Augusta, GA 30912-2500. Telephone: 706-721-9800; FAX: 706-721-9799; e-mail: lfuchs@mail.mcg.edu.** The deadline for receipt of applications is April 13, 2001. *The Medical College of Georgia is an Equal Opportunity Employer/Affirmative Action Employer. Applications from women and underrepresented minorities are particularly encouraged.*

Boehringer Ingelheim Pharmaceuticals, Inc. is the largest U.S. subsidiary of Boehringer Ingelheim Corporation. Headquartered in Ingelheim, Germany, the Boehringer Ingelheim group of companies is one of the top 20 leading pharmaceutical corporations in the world with more than 140 affiliated companies and business interests on every continent. Its product range is focused on human pharmaceuticals (hospital, prescription, and self-medication) as well as animal health.

We currently have multiple **CHEMIST** positions open in the following departments for individuals of all levels, from B.S. to Ph.D., with or without previous experience. The Chemical Development Department is responsible for the development of effective processes for new pharmaceuticals in preclinical and early clinical studies, the preparation of GMP supplies for clinical Phase I and II trials, and for process development aimed at defining economical and effective syntheses of drug candidates. The Medicinal Chemistry Department is responsible for the discovery of new chemical entities with biologically relevant activities, with the ultimate goal of producing drugs of medicinal necessity. The Pharmaceuticals Department is responsible for the development of formulations for new chemical and biological entities as well as the reformulation of marketed products. The Drug Metabolism and Pharmacokinetics Department is responsible for conducting absorption, distribution, metabolism and excretion (ADME) and pharmacokinetic (PK) studies in disease models and humans.

Qualified applicants should respond with résumé in duplicate to: **BIPI Staffing Center, P.O. Box 534, Waltham, MA 02454-0534. E-mail: BIPI@BI-Careers.com.** All résumés must include the following Job Code: AD-SCI-GC03.

POSITIONS OPEN



FACULTY POSITION AT MIT DEPARTMENT OF BIOLOGY

MIT is seeking an outstanding Scientist with a strong record of research accomplishments for a **TENURE-TRACK POSITION**. Applicants at all faculty levels will be considered. A successful applicant will be expected to develop a significant and independent research program and have a commitment to excellence in undergraduate and graduate education.

The applicant's research program may involve any area of modern biology. We are particularly interested in candidates focusing on structural and/or computational biology. We especially encourage applicants who are using X-ray crystallography or genomics/bioinformatics to address important questions in modern biology.

Applicants should submit curriculum vitae including a summary of current and proposed research programs and should arrange for three letters of recommendation to be sent to:

**Biology Search Committee
Attention: Carl Pabo
MIT, 77 Massachusetts Avenue
Room 68-132
Cambridge, MA 02139**

Consideration of completed applications will begin on February 1, 2001.

MIT is an Affirmative Action/Equal Opportunity Employer. Qualified women and minority candidates are especially encouraged to apply.

RESEARCH ASSISTANT PROFESSOR and POSTDOCTORAL RESEARCH ASSOCIATE positions available to work on the development of innovative new methods to study signaling networks and the regulation of cell proliferation by novel genes. Applicants for the Research Assistant Professor position must have M.D. or Ph.D. degree, potential for independent funding, and at least five years of postdoctoral training in the areas of molecular biology and protein production/characterization. Postdoctoral positions are available to highly motivated individuals with strong experience in molecular biology. Competitive salaries based on areas of expertise, research experience, and publication record. For fullest consideration, send by April 16, 2001, statement of research interest and experience, curriculum vitae, and names of three references to: **Dr. Oscar R. Colamonic, (OC001), Department of Pharmacology, University of Illinois, 835 South Wolcott Avenue, Room E403 (M/C868), Chicago, IL 60612. E-mail: ocolamon@uic.edu.** *The University of Illinois is an Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL FELLOWS Cardiac Metabolism/Biochemistry

The Program in Integrative Cardiac Metabolism at the University of Illinois College of Medicine announces Postdoctoral positions. The program seeks individuals in cardiovascular sciences with experience in immunoassay, HPLC, gene transfer, or NMR along with isolated hearts or cardiomyocytes. Applicants must hold an M.D. or Ph.D. Send curriculum vitae and research interests to: **Dr. E. Douglas Lewandowski, Department of Physiology and Biophysics (M/C 901), University of Illinois College of Medicine, 835 South Wolcott, Chicago, IL 60612. FAX: 312-996-2870. UIC is an Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION available to study the regulation of DNA damage-responsive and stress-responsive genes in yeast. Prior experience in yeast genetics and/or molecular biology is desirable. Send curriculum vitae and names and contact information for three references to: **Dr. Gwen Sancar, Department of Biochemistry and Biophysics, CB Number 7260, University of North Carolina at Chapel Hill, Chapel Hill, NC 27599-7260. E-mail: Gwendolyn_Sancar@med.unc.edu.**

POSITIONS OPEN



CHAIRPERSON Department of Mathematics Morehouse College

Morehouse College invites applications for the position of Chairperson of the Department of Mathematics, which begins July 31, 2001. Applicants should hold a Doctorate in mathematics and have appropriate research and teaching experience to qualify for a tenured appointment at either the **ASSOCIATE** or **FULL PROFESSOR** level. As an undergraduate institution, Morehouse values excellent teaching and mentoring. The successful applicant should demonstrate a capacity to assume a leadership role in the Department and will be expected to maintain an active research program and to have a strong commitment to enhancing the research capacity of the Department. For more information on the Department and College, visit our website: <http://www.Morehouse.edu>. Please submit full curriculum vitae and graduate school transcript by April 11, 2001, and request that three letters of reference be forwarded by the same date to:

**J. K. Haynes, Ph.D.
Dean, Division of Science and Mathematics
Morehouse College
830 Westview Drive, S.W.
Atlanta, GA 30314**

Morehouse College is an Equal Opportunity Employer.

TENURE-TRACK FACULTY POSITION Department of Physiology and Cell Biology The Ohio State University College of Medicine and Public Health

The Department of Physiology and Cell Biology is soliciting applications for a tenure-track position at the rank of **ASSISTANT** or **ASSOCIATE PROFESSOR**. We are seeking individuals with a strong research background in cardiac excitation-contraction coupling as studied with patch clamp techniques, calcium imaging by confocal microscopy, and other state-of-the-art approaches. Basic studies of ion channels and other components of EC coupling in cardiomyocytes, transfected oocytes, or model cell lines will be encouraged. This individual may benefit from collaborative research with members of the Department of Physiology and Cell Biology and the Heart and Lung Research Institute to elucidate the basis for altered EC coupling in transgenic, spontaneous, and experimentally induced heart failure models currently under investigation. A highly competitive salary and start-up funds are available for this position. Applications will be accepted until June 1, 2001. Send curriculum vitae, a brief description of research interests, and names of three references to: **Muthu Periasamy, Chair, Department of Physiology and Cell Biology, 304 Hamilton Hall, 1645 Neil Avenue, Columbus, OH 43210-1218.** *The Ohio State University is an Equal Opportunity/Affirmative Action Employer. Qualified women, minorities, Vietnam-era veterans, disabled veterans, and individuals with disabilities are encouraged to apply.*

POSTDOCTORAL POSITIONS

Available immediately to study *Drosophila* homologs of genes involved in human neurogenetic disease, to investigate protein-protein interactions of human disease proteins, and to establish / to test cellular models relevant to disease pathogenesis, or to clone genes associated with balanced chromosome aberrations. Applicants must have a Ph.D. and experience in *Drosophila* genetics, protein biochemistry, molecular biology/cell biology, or human genetics.

Please send curriculum vitae and three letters of reference to:

**Dr. James Gusella
Molecular Neurogenetics Unit, Room 6214
Massachusetts General Hospital East
Charlestown, MA 02129
E-mail: Gusella@helix.mgh.harvard.edu**

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Saint Francis Hospital and Medical Center has again been recognized as one of the nation's top 100 hospitals by the HCLIA-Sachs Institute for continuing to achieve excellence in patient care and overall performance. This prestigious ranking also makes us The Employer of Choice among healthcare professionals.

RESEARCH SCIENTIST (Full-Time)

This exciting position will be responsible for designing and implementing new research projects in bone cell/molecular biology. Duties include staff mentoring, writing scientific papers, experimental design and grants.

In addition to a Doctorate degree and a minimum of 2 years experience as a post doctoral fellow, the candidate must have demonstrated experience with molecular techniques.

We offer an excellent salary and benefits package. For consideration, please send/fax your resume to: **Dr. Ernesto Canalis, Director** Department of Research, Saint Francis Hospital and Medical Center 114 Woodland Street, Hartford, CT 06105. Fax: 860-714-8053. TTY: 860-714-4447, E-mail: ecanalis@stfranciscare.org Visit our website at <http://www.stfranciscare.org>

If you do not have access to the Internet, please contact the Human Resource Call Center at its toll-free number: 1-877-250-9570 24 hours a day, 7 days a week.



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HIV Drug Resistance Program

Senior Research Fellow and Postdoctoral Fellows

Senior Research Fellow and Postdoctoral Fellow positions are available immediately in a research program focused on understanding the replication of human immunodeficiency virus and other retroviruses. Research projects encompass a broad area of retroviral replication and pathogenesis; specific ongoing projects include mechanisms of viral drug resistance, development of new anti-HIV drugs, mechanisms of reverse transcription, reverse transcriptase fidelity and recombination, and viral RNA dimerization.

Applicants must have a strong background in molecular biology, biochemistry and/or virology. Applicants to the Senior Research Fellow position must have relevant prior postdoctoral experience (salary range: \$53K-69K). The salary range for postdoctoral positions is \$31K-\$49K, commensurate with experience. To apply, submit a cover letter, curriculum vitae, bibliography, and names of three references to:

Dr. Vinay K. Pathak
HIV Drug Resistance Program
NCI-Frederick, P.O. Box B
Frederick, MD 21702

Fax: 301-846-6013, E-mail: vpathak@ncifcrf.gov
Website: www.ncifcrf.gov/hivdrp/Pathak.html



Equal Opportunity Employer

Professor and Head

Department of Food Science and Human Nutrition
College of Agricultural, Consumer and Environmental Sciences
University of Illinois at Urbana-Champaign

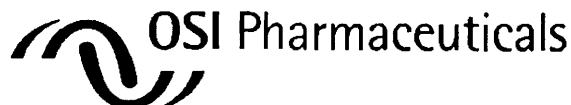
The Department of Food Science and Human Nutrition (FSHN) includes 28 faculty involved in teaching, research and extension, with expertise in food chemistry, food microbiology, food processing/engineering, nutrition/dietetics, hospitality management and sensory science. For more information and a detailed position description see <http://w3.aces.uiuc.edu/fshn>

The candidate should have an earned doctorate in food science, nutrition or closely related field. The person in this position is responsible for:

- providing leadership to the faculty and staff, establishing goals, developing policy guidelines, planning and supervising teaching and extension programs,
- recruiting, supervising, evaluating and counseling faculty,
- administering budgetary and financial matters, including accounting, budget preparation, allocation of funds among programs and personnel, and assisting in generating outside support,
- planning and implementing programs to improve teaching and research facilities,
- maintaining liaison with industry, government, other universities, public and professional groups.

Salary is commensurate with experience and qualifications. The proposed starting date is August 21, 2001. To ensure full consideration, candidates should apply by June 1, 2001, sending a letter indicating the basis for their interest in the position, a full curriculum vitae, and the names, addresses, and phone numbers of five persons familiar with the candidate's qualifications and experience to: **Dr. Bryan A. White, Search Committee, UI College of ACES, 122 Mumford Hall, 1301 W. Gregory Dr., Urbana, IL 61801** Phone: (217) 333-2091; Fax: (217) 333-8804 E-mail: b-white2@uiuc.edu

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Action/Equal Opportunity Employer.*



OSI is a leading biopharmaceutical company with a substantial portfolio of product opportunities for commercialization. OSI utilizes a comprehensive drug discovery and development capability to facilitate the rapid and cost effective discovery and development of novel, small molecule compounds. The Functional Genomics Program at OSI Pharmaceuticals is committed to using the human genome sequence to identify novel therapeutic targets. We are currently looking for several motivated scientists to participate in our orphan G protein-coupled receptor (GPCR) project at our **Tarrytown, NY** facility.

Senior Research Scientist

Seeking an innovative scientist to direct GPCR assay development for use by our orphan GPCR project. The successful candidate will possess a Ph.D. in pharmacology or a related field and at least three years post-doctoral training that includes a proven track record in GPCR pharmacology. Supervisory experience is also strongly desired.

Research Associates

Seeking BS/MS Scientists to contribute to the exciting challenge of identifying ligands for orphan 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, FACS analysis and/or recombinant DNA techniques including RT-PCR is strongly desired.

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, NY 10591; Fax (914) 345-3565; E-mail: employment@osip.com.** Equal Opportunity Employer M/F/D/V.

www.osip.com

POSITIONS OPEN

POSTDOCTORAL POSITION PROSTATE AND RENAL CANCER

A Postdoctoral position is available to design new therapies for renal and prostate cancer. Strong molecular and cell biology skills desirable. Please send curriculum vitae, a cover letter with research interests, and names of three references to: **Dr. Lorraine J. Gudas, Chairman, Department of Pharmacology, Weill Medical College of Cornell University (formerly Cornell University Medical College), 1300 York Avenue, New York, NY 10021. FAX: 212-746-8858. An Equal Opportunity Employer/Affirmative Action/Minorities/Females/Disabled/Veterans.**

ASSISTANT PROFESSOR BARRY UNIVERSITY

Master of Science Program in Anesthesiology

The Master of Science Program in Anesthesiology at Barry University is seeking an Assistant Professor to teach pharmacology, biochemistry, and physics. This is a 12-month, long-term track faculty position beginning August 1, 2001. Qualifications: Doctorate in pharmacology or biochemistry with prior teaching experience. Applicants should have a broad perspective of anesthesiology with the ability to integrate anesthesiology principles into each course. Some research within the School of Natural and Health Sciences is required. Candidates should be familiar with the use of computer technology in instruction. Responsibilities include teaching graduate nurse anesthesia students in advanced pharmacology, biochemistry, and physics. Salary is dependent upon rank and qualifications. Interested candidates may send a letter of intent with curriculum vitae, transcript of terminal degree, and three letters of reference and desired salary to: **Dolores M. Gibbs, M.S., C.R.N.A., Anesthesiology Program Director, Barry University, School of Natural and Health Sciences, 11300 N.E. Second Avenue, Miami Shores, FL 33161-6695.**

SIGNAL TRANSDUCTION THE CLEVELAND CLINIC FOUNDATION

ASSISTANT/ASSOCIATE PROFESSOR level position to complement existing research programs in cardiac, vascular, and neuronal function. Expertise in cell and molecular biology techniques to investigate excitation-response signaling is required. Join a growing research program in the Division of Anesthesiology and Critical Care Medicine, utilizing *in vivo*, *in vitro*, and molecular techniques to address fundamental research issues. Numerous collaborative opportunities with clinical departments and the Lerner Research Institute. Competitive salary and start-up funds. Visit [website: www.lerner.ccf.org/pdf/Iriscript.pdf](http://www.lerner.ccf.org/pdf/Iriscript.pdf) for more information. Candidates should send curriculum vitae, names and FAX numbers of three references, and a brief statement of research interests to: **Dr. Paul A. Murray, Carl E. Wasmuth Endowed Chair and Director, Center for Anesthesiology Research FF40, The Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44195. The Cleveland Clinic Foundation is an Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION available to study the genetics of cancer development using the mouse as a model system. We are identifying novel genes that are causally involved in mammary cancer and in leukemia using proviral tagging mutagenesis, a system that has allowed us to find a number of novel cancer genes. Further studies on the molecular mechanisms by which these genes promote cancer are also possible. Please contact: **Dr. Archibald Perkins, Yale University School of Medicine, Department of Pathology, P.O. Box 208023, New Haven, CN 06520-8023. E-mail: archibald.perkins@yale.edu; Telephone: 203-785-6843.**

POSITIONS OPEN

POSTDOCTORAL POSITIONS University of Nebraska-Lincoln Plant Science Initiative

UNL is sponsoring a major new research initiative in the plant sciences with an emphasis on functional genomics ([website: http://psiweb.unl.edu/psimain.html](http://psiweb.unl.edu/psimain.html)). Postdoctoral positions are available in the George W. Beadle Center for Genetics Research, a state-of-the-art facility with infrastructure for biochemistry, molecular biology, proteomics, DNA microarrays, and bioinformatics analyses.

Molecular plant-bacterial interactions (**Dr. James R. Alfano; e-mail: jalfano2@unl.edu**): Positions are available to study the Type III protein secretion system in the bacterial plant pathogen *Pseudomonas syringae* tomato DC3000 and the interaction with host plants.

Epigenetic control of (trans)gene expression (**Dr. Heriberto Cerutti; e-mail: hcerutti@unl.edu**): Two positions are available to identify the genetic determinants of (trans)gene silencing in tagged mutants of *Arabidopsis thaliana* and *Chlamydomonas reinhardtii*.

Plant genetic engineering (**Dr. Tom Clemente; e-mail: telecentel@unl.edu**): Positions are available in our soybean and maize programs involving *Agrobacterium*-mediated transformation to modify seed lipid composition and to develop biotic and abiotic stress tolerance.

Nuclear regulation of mitochondrial genome transmission in higher plants (**Dr. Sally Mackenzie; e-mail: smackenz@unlnotes.unl.edu**): A position is available to investigate the function of a putative non-coding RNA in mitochondrial genome transmission in *Arabidopsis* during reproductive development.

Submit curriculum vitae including the names and e-mail addresses of three references and a letter indicating the project of interest by March 30, 2001, to: **Don Proulx, University of Nebraska, Center for Biotechnology, N300 Beadle Center, Lincoln, NE 68588-0665. E-mail: dproulx@unlnotes.unl.edu.**

UNL is committed to Affirmative Action/Equal Employment Opportunity and ADH/504.

POSTDOCTORAL ASSOCIATES in ecology and evolution. Several positions are available at the University of Oregon to work with faculty in the Program in Ecology and Evolution. The positions are offered both directly through ecology and evolution and through our NSF IGERT program in Evolution, Development, and Genomics. We seek highly motivated and interactive individuals whose research interests complement those of our group, especially in microbial ecology, interspecies interactions, biological oceanography, molecular and genome evolution, the evolution and genetics of complex traits, and the evolution of developmental systems. Applicants are expected to participate fully in departmental activities such as seminars and symposia. Appointments will be for one year with the possibility of renewal. Applicants must have at least one E and E and/or IGERT faculty sponsor and should contact potential sponsors before applying (see [websites: http://evolution.uoregon.edu](http://evolution.uoregon.edu) and <http://evodevo.uoregon.edu>). To apply, send curriculum vitae, copies of publications, a statement of desired research and faculty sponsor, and have three references forwarded to: **Dr. Patrick Phillips, Biology Department, 1210 University of Oregon, Eugene, OR 97403-1210. E-mail: pphil@darkwing.uoregon.edu. Review of applications will begin on April 6, 2001. The University of Oregon is an Equal Opportunity/Affirmative Action Institution committed to cultural diversity and compliance with the Americans With Disabilities Act.**

POSTDOCTORAL POSITION

Positions available to study signal transduction/gene expression *in vivo* and *in vitro* in the regulation of angiogenesis and tumor growth. Studies require molecular biology, protein biochemistry, and/or cell biology experience. Salary commensurate with experience. Send curriculum vitae, copies of publications, and three references to: **Dr. Judith A. Varner, University of California, San Diego, 9500 Gilman Drive, La Jolla, CA 92093-0912. E-mail: jvarner@ucsd.edu.**

POSITIONS OPEN



University of California
San Diego

POSTGRADUATE RESEARCH POSITION PROTEIN X-RAY CRYSTALLOGRAPHY

University of California

San Diego Department of Physics

A POSTGRADUATE RESEARCH POSITION is available in X-ray crystallography in the Feher/Okamura biophysics group. The project will focus on the structure determination of proteins involved in bacterial photosynthesis. The main emphasis will be on the photosynthetic unit (PSU), which is an integral membrane protein composed of the reaction center and the light-harvesting complex (LH1) associated with it. In addition, there are other projects that deal with the structure determination of various (proton and electron transfer) reaction center mutants whose functions we are investigating in detail.

Our laboratory has been involved in research on bacterial photosynthesis for over three decades. We use a multidisciplinary approach involving a variety of techniques spanning the fields of physics (e.g., magnetic and optical spectroscopies), biochemistry (protein purifications and crystallizations), and biology (construction of site-directed mutants). The applicant will have the opportunity to acquire the knowledge of all these techniques.

Please submit curriculum vitae and names of three references to: **George Feher, Research Professor, UCSD, Department of Physics, 9500 Gilman Drive, La Jolla, CA 92093-0319. E-mail: gfeher@ucsd.edu; Telephone: 858-534-4388; FAX: 858-822-0007; website: <http://www.physics.ucsd.edu/raifeher/>.**

DEAN, COLLEGE OF PHARMACY Idaho State University

Idaho State University invites nominations/applications for the position of Dean, College of Pharmacy. The successful candidate should possess an earned Doctorate/distinguished record of teaching, research, and service meriting appointment as a tenured **PROFESSOR** in the College of Pharmacy; a degree in pharmacy/pharmacy experience outside the academic setting preferred; a proven ability to provide the vision/leadership necessary to expand/enhance the College's educational/research programs; demonstrated excellence in motivating people, team building, and interpersonal communication skills; established administrative skills; proven ability to secure external support for developing/strengthening the College through cooperation with the Offices of Research, Sponsored Programs, and Development. For more information, check [website: www.isu.edu/departments/humanr](http://www.isu.edu/departments/humanr); **Telephone: 208-282-4828.** For information about ISU and our environment, visit [website: www.isu.edu](http://www.isu.edu). Idaho State University is an Affirmative Action/Equal Opportunity Employer.

BIOLOGY DEPARTMENT CHAIR

Responsibilities: Administer undergraduate department. Teach courses in botany, human anatomy and physiology, or zoology.

Qualifications: Required: Doctorate with emphasis in botany, anatomy and physiology, or zoology. At least one year of experience as a department chair or equivalent, at least four years of full-time teaching experience, experience with educational technology, and ability to work in a diverse setting.

Preferred: Ph.D. with an emphasis as listed above.

Rank and salary: **ASSOCIATE PROFESSOR** or **PROFESSOR**. Tenure may be awarded if the candidate meets college tenure requirements.

Appointment: August 15, 2001.

Screening begins March 30, 2001; continues until interviews are scheduled.

Full announcement at [website: http://clem.mscd.edu/~biology/](http://clem.mscd.edu/~biology/). Biology Department Search Committee, Metropolitan State College of Denver. Telephone: 303-556-3213.

Cardiovascular Scientist

The Procter & Gamble Company has an opening for a Ph.D. with a specialty in cardiovascular physiology or pharmacology to be located at P&G's new, state-of-the-art Health Care Research Center in Cincinnati, Ohio.



If you meet the qualifications for this position, please apply online at www.pg.com/jobs/apply_now and reference ad code **NAUSRD001033**.

No agency referrals, please. Applicants must be presently authorized to work in the U.S. on a full-time basis. An Equal Opportunity Employer

Your Qualifications

A Ph.D. or D.V.M. degree with expertise in cardiovascular physiology or pharmacology is required. Experience with acute and chronic in vivo cardiovascular models is essential. Post-doctoral experience in a cardiovascular discipline is desirable. Strong written and oral communication skills are also required.

Your Challenges

The primary role of this individual will be to conduct research as part of a multi-functional cardiovascular drug discovery team. Managing independent research projects and research assistants are essential skills in this position.

Procter & Gamble

We are a Fortune 20 company that has been consistently rated as one of the "most admired" corporations in the U.S. Our support for research and development has increased substantially in recent years, with growing emphasis being placed in expanding the Health Care area. This is evidenced by our recent construction of a world class Health Care R&D facility outside of Cincinnati, Ohio. In addition, our top-rated benefits package serves to support the company's commitment to obtain and retain the best qualified scientists.

Supervisory Veterinarian

Veterinary Medicine and Resources Branch
National Institute of Mental Health
National Institutes of Health
Bethesda, MD

The National Institute of Mental Health is seeking a Supervisory Veterinarian to be Chief, Veterinary Medicine and Resources Branch. Candidate must have a DVM/VMD degree and mastery of veterinary medical arts and sciences to organize and direct a comprehensive program of animal medicine, care, and use. Knowledge of recent developments in the specialty fields of laboratory animal medicine, veterinary pathology, physiology, toxicology, parasitology, microbiology, and other sciences, to maintain the health of different species of animals, including nonhuman primates, in a program of research on the brain and central nervous system, and to review knowledgeably research protocols to determine their suitability regarding the use of animals. Board certification by the American College of Laboratory Animal Medicine plus extensive post-graduate experience is highly desired. Must have the ability to supervise state-of-the-art critical care of post-surgical animals, including nonhuman primates with extensive brain surgery. Ability to analyze recent findings on animal research to design and conduct courses of instruction for investigators on the proper conduct of animal research. Please send resume and three reference letters by May 1, 2001, to:

Chair VMRB Search Committee
National Institute of Mental Health
Bldg. 10, Rm. 4N-222
9000 Rockville Pike
Bethesda, MD 20892.



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GRANTS



U.S. Civilian Research & Development Foundation (CRDF)
for the Independent States of the Former Soviet Union

announces the

COOPERATIVE GRANTS PROGRAM

This program allows joint teams of U.S. and former Soviet Union (FSU) scientists and engineers to apply for one- to two-year support for cooperation in any area of civilian research and development in the natural sciences, mathematics, engineering, and biomedical and behavioral sciences.

APPLICATION DEADLINE: MAY 18, 2001

For a full program announcement and application forms please consult the CRDF website: www.crdf.org or contact CRDF at:

U.S. Civilian Research & Development Foundation
1800 North Kent Street, Suite 1106
Arlington, VA 22209 USA
Tel: 703-526-9720 • Fax: 703-526-9721
E-mail: cgp@crdf.org
<http://www.crdf.org>



NeoPharm is a biopharmaceutical company dedicated to the discovery and characterization of new and innovative cancer drugs for therapeutic applications. Our continued expansion in various therapeutic programs has created the following opportunities.

Research Scientists (All Levels): Positions available for research scientists with strong backgrounds in cancer biology. Responsibilities include development, execution and validation of in vitro and in vivo screening of cancer models in rodents and drug delivery systems. Will also assist in preparation of documentation for IND/NDA submission.

Ph.D. in biological sciences required, with specific experience maintaining cancer cell lines, cell-based cytotoxic assays and ELISA. Experience conducting studies with tumor models, including SCID and nude mouse xenografts of human tumors, preferred. Some supervisory skill and experience useful.

Send or fax resume to: **HR Department, NeoPharm, Inc., 1850 Lakeside Drive, Waukegan, IL 60085. Fax No: 847/887-9281.** No phone calls please.

To learn more about us, please contact our website, www.neopharm.com.

NeoPharm is an equal opportunity employer committed to enhancing cultural diversity within our environment

POSITIONS OPEN

DINOSAUR PALEONTOLOGIST Smithsonian Institution National Museum of Natural History

The Department of Paleobiology seeks a **CURATOR** with research specialty in the systematics and paleobiology (e.g., functional morphology, paleoecology, evolution) of Mesozoic dinosauria and related reptilia. The position will be filled at the GS-15 level (current salary range: \$87,864 to \$114,224 per annum), approximately equivalent to **FULL PROFESSOR** at a university. In addition to a substantial record of peer-reviewed research publications on the systematics and paleobiology of dinosaurs and related taxa, applicants are expected to have significant experience in (1) raising funds for and conducting fieldwork, including leadership of field teams, for the collection of dinosaurs and related reptilia; (2) working with preparators and other technical staff in the documentation, care, and study of collections of dinosaurs and other fossil vertebrates; and (3) interacting with and communicating research findings to diverse constituencies including specialists in public outreach, students, donors, the general public, and the media.

Applicants must send curriculum vitae, including a complete list of publications (reprints are not requested at this time) and a statement of interests, experience, and goals in research and in each of the three additional areas listed above, all to be received by April 30, 2001, at: **Smithsonian Institution, Office of Human Resources, Attention: MPA Number 00YH-2029, 750 Ninth Street, N.W., Suite 6100, MRC 984, Washington, DC 20560-0984**. Applicants must arrange for at least three letters of reference addressing qualifications of the applicant in the four areas listed above to be sent to the same address by the same deadline. Additional reference letters may be solicited. *The Smithsonian Institution is an Equal Opportunity Employer. Preference will be given to applicants with U.S. citizenship.*

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 ECOLOGIST**. As a team leader, 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 \$43,326 to \$80,279 (GS-11/12/13) per year. A degree in an appropriate field is required; Ph.D. desired. Obtain the full vacancy text via **website: www.afm.ars.usda.gov/divisions/hrd/hrdhomepage/empopp.htm** or call **Barbie Ballengee; Telephone: 661-746-8000**; indicate Announcement Number **ARS-X1W-1222**. For technical details of the position, contact the **Research Leader, Michael R. McGuire; Telephone: 661-746-8001**. Applications must be postmarked by April 30, 2001. *Applicants must be U.S. citizens. USDA-ARS is an Equal Opportunity Provider and Employer.*

POSTDOCTORAL FELLOWSHIPS, Harvard Medical School/VA Boston Healthcare System. NIH and VA-funded position; available now; studies on the effects of ethanol on cell adhesion mediated by the L1 cell adhesion molecule (*J. Cell Biol.* **133**:381, 1996) and the development of ethanol antagonists (*PNAS* **97**:3690, 2000). Research involves PCR, site-directed mutagenesis, cell transfection, primary cell culture, cell adhesion assays. Expertise in molecular biology and cell culture preferred. *U.S. citizen or resident alien preferred*. E-mail curriculum vitae and references to: **Dr. Charness; e-mail: mcharness@hms.harvard.edu**. *Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

MEHARRY MEDICAL COLLEGE SENIOR NEUROSCIENTIST

Meharry Medical College (MMC) is seeking a dynamic Neurobiologist to take a leadership role in its developing neuroscience program. Over the past five years the institution has expanded its commitment to modern neuroscience research and has successfully competed for two large national awards to support the newly established Center for Molecular and Behavioral Neuroscience. This interdisciplinary program joins together the varied expertise of the 12 neuroscience Researchers at MMC and facilitates their research collaboration with faculty at Tennessee State University, The University of Alabama at Birmingham, and Vanderbilt University. The latter is formalized via the Meharry-Vanderbilt Alliance. The successful candidate will establish his/her own outstanding research program at MMC and foster the strengthening of competitive, interdisciplinary research within the MMC neuroscience community. He/she will also assume leadership of the recently funded NIH/NINDS Specialized Neuroscience Research Program (SNRP), a major funding program that has poised MMC for the aggressive development of state-of-the-art neuroscience research.

This position will be filled at the rank of **PROFESSOR** in a department that is most appropriate for the research interests of the Investigator. Current Neuroscientists hold appointments in the departments of Anatomy and Physiology; Pharmacology; and Psychiatry, Neurology, and Behavioral Science. The applicant should have a record of substantial and continuous extramural funding and scholarly activities commensurate with the rank of Professor. Administrative and budget management experience in an academic setting is desirable.

Located in Nashville, Tennessee (Music City, U.S.A.), Meharry Medical College is the largest private, historically black institution exclusively dedicated to educating health care professionals and biomedical Scientists in the United States. The institution is composed of the Schools of Allied Health Professions, Dentistry, Medicine, and Graduate Studies. A strong graduate program is available for training Ph.D. and M.D./Ph.D. students.

Interested individuals should submit a letter of interest summarizing their qualifications along with curriculum vitae and contact information for three references to:

**Dr. Hubert K. Rucker
Professor and Chairman
Department of Anatomy and Physiology
Meharry Medical College
Nashville, TN 37208
E-mail: hrucker@mail.mmc.edu**

Meharry Medical College is an Equal Opportunity Employer.

RESEARCH ENTOMOLOGIST/ RESEARCH BIOLOGIST GS-11/12/13

The USDA-ARS-PBARC, Hilo, Hawaii, is seeking a permanent full-time Research Entomologist/Research Biologist to conduct research that will lead to the development of efficacious, cost-effective, and environmentally acceptable and sustainable methods to control, suppress, and eradicate tephritid fruit flies and other tropical pests in Hawaii and the United States. A Ph.D. in entomology is highly desirable or in a related discipline of the biological or physical science or related discipline appropriate to the position. Salary is commensurate with experience. For information on the qualification requirements and application instructions, applicants must call **Loretta Okamoto; Telephone: 808-959-4301; e-mail: lokamoto@pbarc.ars.usda.gov** to request a copy of Vacancy Announcement ARS-X1W-1191 or via **website: <http://www.ars.usda.gov>**. Applications must be marked ARS-X1W-1191 and postmarked by April 30, 2001. *The USDA/ARS is an Equal Employment Opportunity Provider and Employer.*

POSITIONS OPEN

PROFESSOR Structural Biology/Proteins

As part of the School of Biological Science's expansion of its capabilities in structural biology, a senior faculty member with expertise in protein science is being sought. The school is searching for an individual with expertise in protein science, structure, imaging, assembly, etc. This person must have a demonstrated academic record deserving this rank with evidence of an independent research career supported through the competitive peer-review system. The school has a strong infrastructure and facilities for structural biology (**website: <http://sgibls.umkc.edu>**) and has targeted this aspect of research along with the complementary field of molecular genetics/genomics as one of the twin prongs for expansion of scholarly activity. A teaching commitment is expected. The school is a fundamental component of the basic science needs of a comprehensive life sciences initiative in the Kansas City region and is nationally competitive in its capabilities in recruiting faculty.

Please submit a complete application or nomination with letter of interest, names of references, curriculum vitae, and general research plans to:

**Dean, School of Biological Sciences
Attention: SB/P
University of Missouri Kansas City
5007 Rockhill Road
Kansas City, MO 64110-2499**

Evaluation of applications will begin May 1, 2001; applications are welcome until the position is filled.

University of Missouri Kansas City is an Affirmative Action/Equal Opportunity Employer.

NEUROSCIENCE RESEARCH POSITION

The Division of Neurobiology at the Barrow Neurological Institute, St. Joseph's Hospital and Medical Center, invites applications for a staff position. The Division of Neurobiology offers a unique opportunity to focus on research in an environment designed to promote both basic and clinical neuroscience. The major responsibility of Staff Scientists is to aggressively pursue their own research interests and generate research funding to support this pursuit. Staff in the Division of Neurobiology have the opportunity to collaborate with Researchers and Residents in other BNI divisions such as Neurosurgery and Neurology. Close ties are also maintained with several departments at the University of Arizona and Arizona State University, and joint appointments at these institutions are possible. The Division currently has a strong research effort in the physiology of motor control and molecular neuroscience, and we are particularly interested in Scientists whose work will complement these areas. Our primary objective, though, is to maintain a high-quality research program; well-qualified Researchers working in other fields of neuroscience are encouraged to apply. Depending upon the applicant, the appointment can be made at the equivalent academic rank of **ASSISTANT** to **FULL PROFESSOR**. Please send curriculum vitae, brief statement of future research interests, and names of three references to: **Alan R. Gibson, Ph.D., Director, Division of Neurobiology, St. Joseph's Hospital and Medical Center, 350 West Thomas Road, Phoenix, AZ 85013**. All materials should be received by June 1, 2001. *Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITIONS in molecular neurobiology available for highly motivated individuals to create mouse models to study pathophysiology of movement or mental disorders and to study activity-dependent synaptic development using conditional knockout technology. Experience in molecular biology, biochemistry, cell culture, or *in vivo*/whole cell recording is desirable.

Contact: **Dr. Yuqing Li, 3347 Beckman Institute, University of Illinois at Urbana-Champaign, 405 North Mathews Avenue, Urbana, IL 61801. Telephone: 217-244-1614; FAX: 217-244-5180; website: <http://www.beckman.uiuc.edu/faculty/yli.html>; e-mail: y-li4@uiuc.edu**.

AUGUST COURSES AT THE MARINE BIOLOGICAL LABORATORY

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Methods in Computational Neuroscience ~ July 29 - August 26, 2001

This course is appropriate for graduate students, postdocs and faculty in a variety of fields, from zoology and ethology to physics and mathematics. Students are expected to have a strong background in one discipline, and to have made some effort to introduce themselves to a complementary discipline. The course will focus on distinct questions: Can we measure the quality of the brain's solutions to the complex computational problems that arise in the natural environment? Can these problems be decomposed into manageable pieces, and can we relate such mathematical decompositions to the observable properties of individual neurons and circuits? Can we identify the molecular mechanisms that provide the building blocks for these computations, and understand how these building blocks are organized into cells and circuits that perform useful functions. The course is limited to 24 students. **Course Directors:** William Bialek and Rob de Ruyter van Steveninck, NEC Research Institute. **Application Deadline:** April 10, 2001.

Workshop on Molecular Evolution ~ July 29 - August 10, 2001

Now in its thirteenth year, the Workshop on Molecular Evolution is the finest course of its type in the world. The Workshop consists of a series of lectures, demonstrations and discussions that cover various aspects of molecular evolution. A distinguishing feature of the Workshop is a well-equipped computer laboratory for comparative analysis of molecular data. This two-week program is designed for established investigators, postdoctoral fellows, and advanced graduate students with prior experience in molecular evolution. Scientists with a strong interest in molecular evolution, systematics, and population genetics are encouraged to apply. Enrollment is limited to 60 students. **Course Director:** Michael Cummings, Marine Biological Laboratory. **Application Deadline:** April 10, 2001.

Molecular Biology of Aging ~ July 30 - August 18, 2001

A three-week lecture and laboratory course featuring the newest and most exciting ideas in aging research, with emphasis on molecular approaches. A distinguished faculty will interact with approximately 20 students via lecture, discussion, hands-on experiments and analysis of data. Lecture topics encompass model systems; mitochondrial defects and oxidative stress, DNA mutations and repair; telomeres and cellular senescence; mammalian aging; and evolutionary considerations. Laboratory exercises will examine aging model systems of *S. cerevisiae* and *C. elegans*; DNA changes in old versus young animals including mitochondrial, ribosomal, and other DNA species; mammalian aging in old versus young mice and in various mutant strains; and the molecular basis of Werner's syndrome. **Course Directors:** Leonard Guarente, Massachusetts Institute of Technology; and Douglas Wallace, Emory University. **Application Deadline:** April 13, 2001.

Molecular Mycology: Current Approaches to Fungal Pathogenesis ~ August 6-24, 2001

This course provides state-of-the-art training in molecular methods for studying fungal pathogens important in human disease. The course is designed for advanced graduate students, postdocs, and independent investigators. Limited to 16 students. The goal of the course is to instruct students in the application of molecular methodologies to problems posed by medically important fungi. The main areas covered by the course include an introduction to medically important fungi, molecular manipulation and analysis of these fungi, host-fungal interactions, and the application of molecular methods to the analysis of fungal disease. **Course Directors:** J.E. Edwards, Harbor/UCLA Medical Center; P.T. Magee, University of Minnesota; and Aaron P. Mitchell, Columbia University. **Application Deadline:** April 13, 2001.

Neurobiology & Development of the Leech ~ August 11 - September 1, 2001

A course for graduate students, postdoctoral students, and independent investigators interested in applying diverse experimental approaches (electrophysiology, biophysics, cellular and molecular biology) to the study of the nervous system and development of a single organism. Studying the segmental nervous system and embryo of the leech, participants will master a variety of techniques that can be applied to most other preparations, including vertebrates. Limited to 12 students. **Course Directors:** Ron Calabrese, Emory University; and Chris Sahley, Purdue University. **Application Deadline:** April 13, 2001.

Pathogenesis of Neuroimmunologic Diseases ~ August 12-25, 2001

For advanced graduate students, postdoctoral fellows, and junior faculty in neurosciences and immunology and for residents in neurology, neurosurgery, or psychiatry. Established investigators in any of these fields will benefit from the course. Limited to 30 students. A two-week program of lectures and discussion will describe the application of genetic, molecular, and cell physiologic concepts and techniques in current use in immunology and neurophysiology to the analysis of pathogenesis in the better known neurologic and psychiatric diseases thought to have an immunologic basis. The presentations will deal both with mechanisms underlying the disease process and lesion formation, and with their physiologic consequences. The sessions will be supplemented by demonstrations of patients with typical neuroimmunologic disease and of relevant animal models. **Directors:** Celia Brosnan, Albert Einstein College of Medicine; and Jack Rosenbluth, New York University School of Medicine. **Application Deadline:** April 13, 2001.

Neural Development and Genetics of Zebrafish ~ August 12-25, 2001

An intensive two-week course for advanced graduate students, postdoctoral fellows and independent investigators that will focus on the development and genetics of zebrafish with special emphasis on the nervous system. The first week of the course will cover the early development and genetics of zebrafish and the relevant methodologies. The second week will focus on the nervous system. Mornings will be devoted mainly to lectures and discussion and afternoons to three- to four-hour laboratory exercises. Limited to 16 students. **Course Directors:** John E. Dowling, Harvard University; and William S. Talbot, Stanford University School of Medicine. **Application Deadline:** April 13, 2001.

For application forms and further information, please visit our web-site: <http://courses.mbl.edu>

or contact Carol Hamel, Admissions Coordinator ~ Marine Biological Laboratory

7 MBL Street ~ Woods Hole, MA 02543

(508) 289-7401 ~ admissions@mbledu



The MBL is an EEO Affirmative Action Institution

POSITIONS OPEN

ASSOCIATE CHIEF OF STAFF FOR RESEARCH

Veterans Administration Palo Alto Health Care System (VAPAHCS), Palo Alto, California, an affiliate of Stanford University School of Medicine, is accepting applications for the position of full-time Associate Chief of Staff for Research. *Applicants must be U.S. citizens and have an M.D., Ph.D., or equivalent degree. Those with an M.D. or equivalent must hold a degree from an approved school, must hold a current and unrestricted license to practice medicine or surgery, and must be Board certified by an American specialty board. Applicants should have demonstrated significant and distinguishing accomplishments in research and administration. Experience in the VA system is highly desirable but not essential. The successful candidate will have to meet VA requirements for appointment as Associate Chief of Staff for Research and Stanford University School of Medicine requirements for faculty appointment at the ASSOCIATE PROFESSOR or PROFESSOR level. The appointee will be expected to maintain an outstanding research program of his or her own, to foster the growth of existing research programs, to facilitate the initiation of new programs, and to foster the careers of new Investigators. VAPAHCS, one of the largest and most complex VA facilities in the nation, has an extensive research program in the areas of medical research, rehabilitation research and development, health services research and development, and the VA Cooperative research with an annual research budget of \$37 million. Please send cover letter and curriculum vitae to: Jackie Bevins (05C), Human Resources Management Service, VA Palo Alto Health Care System, 3801 Miranda Avenue, Palo Alto, CA 94304. Complete application packages must be received not later than April 23, 2001. For additional information, please call Ms. Bevins; Telephone: 650-493-5000, Extension 64351. VAPAHCS and Stanford University are Equal Opportunity Employers, are committed to increasing representation of women and members of minority groups on the faculty, and particularly encourage applications from such candidates.*

The Collaborative Research Center "Mesoscopically Organized Composites" (Sfb 448) of the universities of Berlin and Potsdam and the MPI of Colloids and Interfaces, supported by the Deutsche Forschungsgemeinschaft, is an interdisciplinary research program dedicated to the preparation and characterization of novel functional organic/inorganic composite materials with structural length scales ranging from 1 to 100 nm. Applications from young Scientists with a Ph.D. in chemistry, physics, or material sciences are invited for the position as a

PRINCIPAL YOUNG INVESTIGATOR

The position will offer the successful candidate the opportunity to start an independent scientific career in this field (including the possibility of a Habilitation). The successful applicant may expect support by a postdoctoral, two Ph.D. students, and a Technician and means for materials and supplies for major investment. Applications and a brief work proposal should be sent no later than April 30, 2001, to: Technische Universität Berlin, Geschäftsstelle des Sfb 448, Sekr. ER 1, Strasse des 17. Juni 135, D-10623 Berlin, Germany. For further information, see website: <http://www.tu-berlin.de/~sfb448>.

POSTDOCTORAL POSITION at Tularik Genomics to pursue functional analysis of novel oncogenes discovered by genomic microarray technology. Opportunity to publish and interact with key cancer research laboratories at nearby Cold Spring Harbor Laboratory. Recent Ph.D. graduates with experience in molecular or cellular aspects of cancer-related research are encouraged to apply. Tularik offers stock options, a salary and benefits package, and an exciting work environment where your contributions will make a difference. For immediate consideration, please refer to position code GS-PD and submit your curriculum vitae by e-mail, FAX, or mail to: Tularik Genomics, 266 Pulaski Road, Greenlawn, NY 11740. FAX: 631-271-6560; e-mail: emiller@tularik.com.

POSITIONS OPEN

MAXIA PHARMACEUTICALS, INC.

MAXIA Pharmaceuticals, Inc. is a San Diego-based biopharmaceutical company focused on the development of small molecules to address a broad range of therapeutic targets. MAXIA seeks highly motivated candidates for the position of:

SCIENTIST

MAXIA is seeking a Ph.D. Molecular Biologist to expand the drug discovery team in Type 2 diabetes and cancer. The candidate will be familiar with nuclear receptor signaling and/or signal transduction mechanisms. Expertise in molecular biology techniques, especially with RT-PCR, Northern, and Westerns, is required. Candidates should be highly experienced and motivated to carry out experimental work. Candidates should have two years of postgraduate experience in a relevant field.

MAXIA offers a competitive salary and benefits package including stock options. Please send your résumé to: e-mail: HR@maxia.com; FAX: 858-824-9258 citing Reference 0104. Equal Opportunity Employer.

The Ohio State University, School of Natural Resources: **ASSISTANT PROFESSOR, RIVER ECOLOGIST/FISHERIES** (50% teaching, 50% research). A 12-month tenure-track position at the Ohio State University, Columbus, Ohio. Must be able to develop a nationally recognized, independent research program relating to stream and river ecology and their fisheries. Develop and teach graduate- and undergraduate-level courses. Teach assigned undergraduate courses. Secure extramural funding and publish in refereed journals. Develop an interdisciplinary research program. Qualifications are an earned Ph.D. in fisheries, natural resources, ecology, or related fields. Applicants must have produced significant work in the field of fisheries. Salary is negotiable. Submit application to: Dr. David L. Johnson, School of Natural Resources, The Ohio State University, 2021 Coffey Road, Columbus, OH 43210. Telephone: 614-292-2265; FAX: 614-292-7432; e-mail: johnson.46@osu.edu. The application deadline is May 1, 2001, or until a suitable candidate is found. Starting date will depend on when a successful candidate is selected. See website: www.ag.ohio-state.edu/~natres/ for a complete job description.

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

BIOLOGIST

The University of the South, also known as Sewanee, invites applications for a one-year **VISITING ASSISTANT PROFESSOR** in biology, which is renewable for a second year. The successful candidate should be able to participate in teaching the breadth of introductory biology for majors, to teach an introductory course for nonmajors, and to teach upper-division courses drawn from among ecology, evolution, or another area of organismal and/or population biology. Candidates should be broadly trained in biology and should have an appreciation for the liberal arts tradition in education. The University, with an undergraduate enrollment of 1,300, has a highly selective program and is located on a biologically diverse 10,000-acre campus on Tennessee's Cumberland Plateau. Review of applicants will begin on April 1, 2001, but applications will be accepted until a suitable replacement is found. Send a letter of application, curriculum vitae, transcripts, and three letters of reference to: Dr. Nancy J. Berner, Chair, Biology Department, 735 University Avenue, The University of the South, Sewanee, TN 37383. Website: <http://www.sewanee.edu/biology>; e-mail: nberner@sewanee.edu. The University of the South is an Equal Opportunity Employer. Minorities and women are encouraged to apply.

POSITIONS OPEN

ENDOWED PROFESSORSHIP Robert A. Welch Foundation Chair in Biochemistry

The Department of Molecular Biology and Immunology of the University of North Texas Health Science Center at Fort Worth is seeking applicants to fill a Robert A. Welch Foundation Endowed Chair in Biochemistry. We seek an outstanding nationally and internationally recognized Biochemist. The holder of the Robert A. Welch Chair in Biochemistry will be a tenured faculty member in the highly multidisciplinary Department of Molecular Biology and Immunology, which houses successful research programs in biochemistry, molecular biology, microbiology, immunology, and molecular biophysics. The major criterion for candidacy is a track record of world-class excellence in biochemistry research related to any of the areas of research focus at our Health Science Center including but not limited to cancer, cardiovascular disease, aging, vision, microbial pathogenesis, and any aspect of molecular pathophysiology. The attractive recruitment package for the Robert A. Welch Chair in Biochemistry includes at least 5,000 square feet of laboratory space plus office space and the possibility of corecruitment of a number of senior and junior faculty and/or Postdoctoral Fellows and graduate students. The package will also include requisite funds for potential renovation of space, laboratory setup, staff support, and moving expenses. The Department of Molecular Biology and Immunology has two highly successful doctoral programs in biochemistry and molecular biology and microbiology and immunology, supported in part by State of Texas funds. The incumbent will also have the opportunity to join several Institutes for Discovery comprising centers of excellence on our campus and work closely with the new Fort Worth medical incubator and our planned Center for Biotechnology. The Health Science Center is a state-supported institution housed in well-equipped facilities. The Center is situated adjacent to the multiple museums of the cultural district of Fort Worth, an attractive and dynamic city with outstanding recreational and cultural attractions, highly favorable cost of living, and a sunny climate. Send curriculum vitae, a summary of research interests and goals, and a list of five references to: Dr. Ronald H. Goldfarb, Professor and Chairman, Department of Molecular Biology and Immunology and Director, Institute for Cancer Research, University of North Texas Health Science Center, 3500 Camp Bowie Boulevard, Fort Worth, TX 76107-2699.

The University of North Texas Health Science Center at Fort Worth enjoys a smoke-free campus and is an Equal Employment Opportunity/Affirmative Action Institution.

DIRECTOR ADVANCED IMAGING RESEARCH CENTER

Oregon Health Sciences University invites applications for the position of Director of its new \$17 million Advanced Imaging Research Center. The Center will be dedicated to biomedical research and serve as a core imaging research facility for the campus. We seek an M.D. and/or Ph.D. with a demonstrated MR research record, success in obtaining extramural funding, and a strong vision to develop a multidisciplinary imaging center. Expertise in MR physics and biomedical engineering is desirable. The appointment will be made at the level of **ASSOCIATE PROFESSOR** or **PROFESSOR**. The Director will be responsible for the management of three research-dedicated MRI scanners (1.5T, 3-4T, and a high-field, small-bore system) and the supervision of at least two additional Physicist and/or Engineering positions as well as core support staff. For all consideration, please forward curriculum vitae, names of three references, and a letter of introduction to: Ginger Ashworth, Department of Behavioral Neuroscience L470, Oregon Health Sciences University, 3181 S.W. Sam Jackson Park Road, Portland, OR 97201-3098. E-mail: ashworth@ohsu.edu. For queries about the Center, contact: Dr. Jeri Janowsky; e-mail: janowskj@ohsu.edu. OHSU is an Affirmative Action/Equal Opportunity Employer.

2001 Opportunities

Humboldt Research Fellowships

for highly qualified scientists and scholars of all disciplines not resident in Germany, under 40 years of age and holding a doctorate, enabling them to undertake long-term research stays of 6 to 24 months in Germany (about 600 per year, applications accepted any time.)

Further Scholarships and Research Fellowships

for scientists and scholars especially from **Middle and Eastern European Countries, Developing Countries, USA, Japan, and Germany**

Humboldt Research Awards and Friedrich Wilhelm Bessel Research Awards (New!)*

for internationally recognized scientists and scholars of all disciplines and nationalities not resident in Germany (age limit for the Bessel Award: 45). The awards are endowed with up to DM 150,000 (approx. US\$ 66,000). It includes the invitation to undertake extended periods of research at German research institutes (4-12 months). Nomination deadlines: May 31/October 31, 2001.

Wolfgang Paul Award Program (New!)*

for internationally recognized scientists and scholars of all disciplines and nationalities not resident in Germany (age limit: generally 50). The award is endowed with up to DM 4,500,000 (approx. US\$ 2,000,000). It enables the recipients to establish their own research groups of highly qualified younger researchers in Germany between 2001 and 2003. Nomination deadline: April 30, 2001.

Kosmos Awards Program (New!)*

for internationally recognized young scientists and scholars of all disciplines and nationalities not resident in Germany (age limit: generally 35). The award is endowed with up to DM 2,250,000 (approx. US\$ 1,000,000). It enables the recipients to establish a group of young researchers in Germany between 2001 and 2003. Application deadlines: March 15/June 15, 2001.

*These programmes are sponsored by the "Investments in the Future Program" (ZIP) of the Federal Ministry of Education and Research (BMBF).

For further information please refer to: <http://www.humboldt-foundation.de> or contact select@avh.de

Alexander von Humboldt-Stiftung, Jean-Paul-Str. 12, D-53173 Bonn, phone: +49-(0)228-833-0, fax: +49-(0)228-833-199



EYE AND VISION RESEARCH AT HARVARD



THE POSTDOCTORAL PROGRAM "Molecular Bases of Eye Disease," funded by the National Eye Institute, is designed to provide expertise in the most current molecular research techniques and knowledge of the outstanding problems in ophthalmology. Thirty faculty mentors, all with appointments or affiliations with the Department of Ophthalmology at Harvard Medical School, are drawn from laboratories of the Massachusetts Eye and Ear Infirmary, the Schepens Eye Research Institute, the Brigham and Women's Hospital, the Massachusetts General Hospital, the Longwood Campus Basic Science Departments, and the Department of Molecular and Cell Biology on the Cambridge campus.

Participants are expected to spend two to three years in training. Training involves (i) participation in full-time research to obtain a mastery of molecular techniques in biochemistry, cell biology, genetics, immunology, or neurobiology as applied to ophthalmology and vision; (ii) exposure to ophthalmic problems through a series of didactic courses, clinical grand rounds, seminars, journal clubs, and meetings; and (iii) writing grant proposals to obtain individual support for the second and third year of training under the guidance of faculty presenting a formal course in principles of grant submission.

Positions are available for individuals immediately after the awarding of their terminal degree as well as for those who have completed their postdoctoral clinical training. Candidates must have a Ph.D. or M.D. degree and be citizens or permanent residents of the United States.

Applicants for this program can obtain information on the mentors and their research at the website <http://www.eri.harvard.edu/training/index.html>

More detailed information on the application process or the program is available from **Nina Roberts, Schepens Eye Research Institute, 20 Staniford St., Boston, MA 02114**. Phone: (617) 912-0230, Fax: (617) 912-0130. E-mail: nroberts@vision.eri.harvard.edu

The Schepens Eye Research Institute is an Equal Employment Opportunity Employer M/F/V/H

SYMPOSIA



7th National Symposium

BASIC ASPECTS OF VACCINES

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POSITIONS OPEN

POSTDOCTORAL ASSOCIATE

The University of Iowa
Center for Biocatalysis and Bioprocessing

Exciting, varied, and unique work with fermentation, strain improvement, downstream processing, analytical applications from bench to pilot scale. Challenging projects include optimizing fermentations; producing and isolating recombinant proteins, nucleic acids, and secondary metabolites; cultivating BL2 pathogens; and conducting biotransformations. Involves contractual research and development in a team environment. A Ph.D. degree in microbiology or a related field and background and familiarity with techniques of biochemistry, molecular biology, and protein and plasmid DNA purification are required. Experience with HPLC, computers, fermentation, growth medium design, and fermentors valuable.

Send résumé to: **Bev Palmer, Administrative Assistant, Center for Biocatalysis and Bioprocessing, Oakdale Research Park, C100 MTF, The University of Iowa, Iowa City, IA 52242-5000. Telephone: 319-335-4903; FAX: 319-335-4901.**

POSTDOCTORAL FELLOW

The University of Kansas Medical Center Cardiovascular Department has a Postdoctoral Fellowship available in the vascular biology laboratory. This laboratory specializes in the study of growth factors and insulin-like growth gene expression and regulation in the heart and blood vessels as it relates to hypertension, oxidative stress, and injury.

Projects include defining molecular mechanisms of regulation of insulin-like growth factor receptor expression at the transcriptional and posttranscriptional level. Cross-talk mechanisms between G protein and tyrosine kinase growth factor receptors, creating tissue-specific inducible knockout models for the IGF I receptor and others. Ph.D. in biochemistry or molecular biology. Immediate start date desirable.

To apply, send cover letter and résumé to: **University of Kansas Employment Office, 1052 Wescoe Building, 3901 Rainbow Boulevard, Kansas City, KS 66160-7112. FAX: 913-588-5042; e-mail: www2.kumc.edu/hr. An Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL FELLOW OR RESEARCH SCIENTIST POSITION

Multiple positions are available for highly motivated Ph.D. or M.D./Ph.D. holders to work on G protein-mediated signaling pathways that control cell growth and differentiation. These pathways will be studied in embryonic stem cell cultures and animal models. Level of appointment and salary will be commensurate with years of research experience. Special consideration will be given to applicants with experience in gene regulation, gene knockout strategy, ES cell differentiation, or microarray analysis. The Weis Center for Research is located in a safe, family-oriented setting within a three-hours' drive of Philadelphia, Pennsylvania, Baltimore, Maryland, and New York City. Send a description of your research interests, curriculum vitae, and three references to: **Dr. Janet Robishaw, c/o Ms. Kristin Gaul, Weis Center for Research, Geisinger Clinic, Danville, PA 17822-2600. E-mail: jrobishaw@geisinger.edu.**

POSTDOCTORAL POSITIONS: immunology. Positions available to highly motivated individuals interested in studying T cell immune responses, memory, and development *in vivo* using genetic manipulation and other techniques. Specific areas of interest include cytokine and chemokine control of antimicrobial responses and memory, tissue-specific homing, γ C cytokine regulation of T cell development, and tolerance and autoimmunity in the intestinal mucosa. Ph.D. and/or M.D. and experience and publications in relevant areas are required. Submit curriculum vitae and names of three references to: **Leo Lefrançois, Ph.D., Chief, Division of Immunology, MC1319, University of Connecticut Health Center, 263 Farmington Avenue, Farmington, CT 06030-1319. E-mail: llefranc@neuron.uchc.edu.** For further information on UCHC, visit: **website www.uchc.edu.**

POSITIONS OPEN

POSTDOCTORAL POSITIONS

Several **POSTDOCTORAL ASSOCIATE POSITIONS** available immediately in multidisciplinary research programs to discover and study new drugs for cancer, AIDS, and immune diseases. We have openings for Biologists, Chemists, Biochemists, and Structural Biologists in all of the following areas: (1) site-directed mutagenesis, protein expression and purification, protein biochemistry, and ligand-receptor binding; (2) general area of molecular and cellular biology, immunology, or virology; (3) organic, peptide, and medicinal chemistry, combinatorial synthesis; (4) X-ray crystallography and protein-ligand complex structure determination by X-ray or NMR techniques; (5) computer modeling, bioinformatics, and drug design. Attractive salary and benefits. Send curriculum vitae with your telephone number and e-mail address to: **Professor Ziwei Huang, School of Molecular and Cellular Biology, University of Illinois at Urbana-Champaign, 393 Morrill Hall, MC-119, 505 South Goodwin Avenue, Urbana, IL 61801. U.S.A. E-mail: z-huang@life.uiuc.edu; FAX: 217-265-0992.** For details of our research and publications, visit our laboratory **website: http://www.life.uiuc.edu/z-huang.** The University of Illinois is an Affirmative Action/Equal Opportunity Employer.

RESEARCH ASSISTANT PROFESSOR

The Division of Vascular Surgery at the University of Cincinnati Medical Center is looking for a **POSTDOCTORAL-LEVEL CANDIDATE** to be hired at the Research Assistant Professor level. Candidates are to be interested in vascular cell and molecular biology. The Ph.D. must have tissue and cell culture experience as well as strong experience in molecular biologic techniques such as Northern and Southern blotting, PCR, flow cytometry, protein and DNA sequencing, and viral transfection procedures. Interest in cell signaling and signal transduction advantageous. Salary to be based on experience. If interested, please contact: **John D. Edwards, M.D., Director of Vascular Services, Department of Surgery, University of Cincinnati Medical Center, 231 Albert B. Sabin Way, Suite 2363, Cincinnati, OH 45267-0558. E-mail: edwarjn@ucmail.uc.edu.**

POSTDOCTORAL POSITIONS

AT NOTRE DAME
Structural Studies of Oligosaccharides

Two NIH-funded Postdoctoral positions are available immediately in the area of oligosaccharide structure determination. Successful candidates will have Ph.D. training in oligosaccharide synthesis (chemical/enzymic), NMR/X-ray crystallography and/or computational chemistry (electronic structure/MD). Experience with isotopic labeling is desirable. Send curriculum vitae and names/addresses of three references to: **Professor Anthony S. Serianni, Department of Chemistry and Biochemistry, University of Notre Dame, Notre Dame, IN 46556-5670. E-mail: serianni.1@nd.edu; website: www.nd.edu/~aserianni.** The University of Notre Dame is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS available immediately to study the role of estrogen receptor coactivators in breast cancer development. Experience in molecular biology is required. Please send curriculum vitae and names of three references to: **Dr. Yijun Zhu, Department of Pathology, Northwestern University Medical School, Tarry 7-751, 303 East Chicago Avenue, Chicago, IL 60611. E-mail: y-zhu2@nwu.edu.** Northwestern University is an Affirmative Action/Equal Opportunity Employer.

FELLOW or TECHNICIAN position immediately available at Tufts University Medical School to study genetics of cognitive disorders or molecular basis of neuronal degeneration. Background in tissue culture and molecular biology preferred. Send curriculum vitae and three references to: **Bradford Navia, M.D., Ph.D., Research Laboratories in Psychiatry, Box 1007, Washington Street, Boston, MA 02111. E-mail: BNavia@Lifespan.org.**

POSITIONS OPEN

POSTDOCTORAL POSITION

Pharmacokinetics/Pharmacoproteomics

A Postdoctoral Fellow is being sought to conduct *in vivo* and *in vitro* (including cell culture) pharmacokinetic or pharmacoproteomic studies. This immediate opening requires a Ph.D. in pharmacology with basic training in pharmacokinetics and HPLC. Experience in protein purification and analyses by LC-MS and 2-D gel or drug ADME profile is a plus. Due to the nature of our mission, only nonsmoking candidates will be considered. Candidates may e-mail a résumé to: **e-mail: personnel@saci.org** or send a résumé to: **Cancer Therapy and Research Center, 8122 Datapoint, Suite 250, San Antonio, TX 78229.** Visit our **website: www.ctrc.saci.org.** Cancer Therapy and Research Center is an Equal Opportunity/Affirmative Action Employer.

A **POSTDOCTORAL POSITION** is available in the Department of Physiology, University of Illinois at Chicago, to study and characterize smooth muscle function in transgenic mice expressing different isoforms of myosin heavy chain. The ideal candidate should have a background in smooth muscle biology and function and/or molecular biology. *United States citizenship or permanent residency status is preferred.* This position is within the Program in Cardiovascular Sciences at the University of Illinois at Chicago, co-directed by **Drs. Peter Buttrick and R. John Solaro.** Please send curriculum vitae and names of three references to: **Anne F. Martin, Ph.D., The University of Illinois at Chicago, Department of Physiology and Biophysics (M/C 901), 835 South Wolcott Avenue, Chicago, IL 60612.**

POSTDOCTORAL RESEARCH ASSOCIATE. NIH-funded positions are available immediately to study molecular mechanisms of exocytosis, cell differentiation, and oxidative/nitrosative stress in lung epithelial cells. Candidates with a strong background in molecular biology, cell biology, or biochemistry are encouraged to apply. Send curriculum vitae to: **Dr. Lin Liu, Department of Physiological Sciences, College of Veterinary Medicine, Oklahoma State University, Stillwater, OK 74078-2014. E-mail: lliu@okstate.edu.** Applications will be accepted through March 31, 2001, or until a suitable candidate is identified. *OSU is an Affirmative Action/Equal Opportunity Employer.*

Two **POSTDOCTORAL POSITIONS** are available to study the role of parkin in Parkinson's disease. Candidates are required to have strong expertise in molecular cloning, mammalian cell culture, and gene expression. Previous experience in yeast two-hybrid screening, gene targeting, apoptosis, primary neuronal culture, immunohistochemistry, or *in situ* hybridization is highly recommended. Please send your curriculum vitae and a cover letter to: **Jian Feng, Ph.D., Department of Physiology and Biophysics, State University of New York at Buffalo, 124 Sherman Hall, Buffalo, NY 14214. E-mail: jianfeng@buffalo.edu; FAX: 716-829-2344; website: www.buffalo.edu/~jianfeng.**

POSTDOCTORAL POSITION available immediately to study cellular and molecular mechanisms of neuronal degeneration. Experience in molecular biology and development of knockout and transgenic mice is required. Please send curriculum vitae and the names of three references to: **Dr. Steven Schreiber, Department of Neurology, University of Southern California Keck School of Medicine, 1333 San Pablo Street, MCH142, Los Angeles, CA 90033. E-mail: sschreib@hsc.usc.edu.**

POSTDOCTORAL FELLOWSHIPS: cardiovascular biology, Harvard University; available immediately for Ph.D.s or M.D.s with experience in biochemistry, molecular, or cell biology for research into mechanisms of signaling and exocytosis or enzyme regulation in cardiovascular disease. Send curriculum vitae and names of three references to: **Dr. Guy L. Reed, HSPH II-127, 677 Huntington Avenue, Boston, MA 02115. E-mail: reed@cvtlab.harvard.edu.**

POSITIONS OPEN

POSTDOCTORAL POSITION PROTEIN BINDING KINETICS

DuPont Haskell Laboratory for Toxicology and Industrial Medicine's Biochemical Toxicology Group, Newark, Delaware, is seeking a qualified **POSTDOCTORAL RESEARCH FELLOW** in the area of protein/small molecule interactions. The position requires a recent Doctoral degree in chemistry, biochemistry, or related biomedical sciences. The candidate should be capable of self-directed research to evaluate qualitative as well as quantitative protein-binding kinetics including protein separation and analysis. Qualified candidates should be comfortable handling all aspects of research project direction, including experimental design, implementation, and data interpretation. This position would complement a research group with strengths in pharmacokinetics, physiological modeling, xenobiotic biotransformation, and bioanalytical chemistry.

Preference will be given to candidates with strength in a broad range of bioanalytical tools such as LC/MS (Micromass triple quadrupole and QToF) and NMR. Expertise in innovative approaches for studying non-covalent biomolecule interactions in their native state using SEC, GLP, or CE would also be desirable. Haskell Laboratory offers a unique postdoctoral research experience where innovative approaches can be applied to challenging toxicological problems.

Send curriculum vitae with references and a list of current pertinent publications to: **Mary Jane Hudson, P.O. Box 50, Newark, DE 19714.**

TENURE-TRACK POSITION HELMINTHOLOGY DEPARTMENT OF PATHOBIOLOGY University of Pennsylvania School of Veterinary Medicine

The Department of Pathobiology at the University of Pennsylvania School of Veterinary Medicine is initiating a search for a tenure-track **ASSOCIATE PROFESSOR**. Candidates should have a Ph.D. and/or a V.M.D. or equivalent and have demonstrated a significant record of achievement in research related to helminth biology, with an established and independently funded research program. This position will be filled by someone who applies molecular approaches towards understanding basic aspects of the helminth-host relationship. The successful candidate will teach veterinary helminthology as well as graduate courses in parasitology. Applicants should submit curriculum vitae and the names of three references by April 1, 2001, to: **Chair, Helminthology Search Committee, Department of Pathobiology, School of Veterinary Medicine, University of Pennsylvania, 3800 Spruce Street, 216 Rosenthal, Philadelphia, PA 19104-6008.** *The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION available immediately in dermatology and metastasis research to study role of the paracrine factor PTHrP in transgenic and murine metastasis models. Ph.D. with extensive experience in molecular/cellular biology desirable. Send letter, curriculum vitae, and names/contact information of three references to: **John Foley, Ph.D., Department of Anatomy and Cell Biology, Medical Sciences, Indiana University School of Medicine, Bloomington, IN 47405.** E-mail: jgfoley@indiana.edu; website: <http://misp.medsci.indiana.edu/foley/index.html>.

POSTDOCTORAL POSITIONS are available immediately at McGill University, Montreal, Canada, to work on the molecular characterization of genes involved in the regulation of growth and lifespan in *C. elegans* and in vertebrates (e.g., **Lakowski and Hekimi, Science 272:1010, 1996; Branicky et al., Bioessays 22:48, 2000**). Candidates must possess demonstrated skills in molecular biology. Apply by **FAX: 514-398-1674; e-mail: hekimi@tarnhelm.Biology.mcgill.ca.**

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MAYTAG POSTDOCTORAL RESEARCH ASSOCIATE Arizona State University

One-year (with the possibility of a one-year extension) Postdoctoral research appointment emphasizing innovative collaborative research with a faculty member in the Department of Biology. Applicants must contact a faculty member with compatible research interests to develop a research proposal. The final application must be sent to the faculty collaborator and must consist of (1) curriculum vitae; (2) three letters of recommendation; (3) reprints of publications; (4) description of previous research (maximum 1,000 words); and (5) description of the collaborative research plan (maximum 1,500 words). Shared sponsorship of a Fellow by more than one faculty member is also possible.

Applicants must have received a Doctoral degree in biology or related area prior to appointment and must not currently hold a permanent faculty position. A list of faculty members, their research interests, and an application checklist may be obtained via the Department website: <http://lifesciences.asu.edu/biology/text/maytag.htm>. Application deadline: March 30, 2001, or applications will be reviewed weekly thereafter until the position is filled. Starting date: August 1, 2001. Applications from two individuals wishing to share the position will be considered.

Please send application materials to: **Proposed Faculty Sponsor, Department of Biology, P.O. Box 871501, Arizona State University, Tempe, AZ 85287-1501. FAX: 480-965-2519.** *Arizona State University is an Equal Opportunity/Affirmative Action Employer.*

STAFF ASSOCIATE/ POSTDOCTORAL POSITION Columbia University

Staff Associate/Postdoctoral position to join ongoing research on fluid and electrolyte transport across ocular epithelia. Work involves obtaining cells by culture or dissection, assaying their transport activity with radio labels, measuring electrical properties and rate of fluid movement across epithelial layers, performing cell volume measurements by optical techniques, and using biochemical and molecular biological techniques to study epithelial proteins. Ph.D. or M.D. training in ophthalmology (clinical or research) preferred. Send curriculum vitae to: **Dr. Jorge Fischbarg, Department of Ophthalmology/18, College of Physicians and Surgeons, Columbia University, 630 West 168th Street, New York, NY 10032.** *We are an Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL FELLOWSHIP DANA-FARBER CANCER INSTITUTE HARVARD MEDICAL SCHOOL

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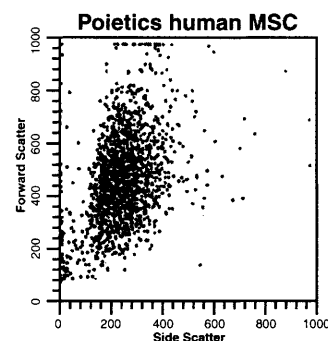
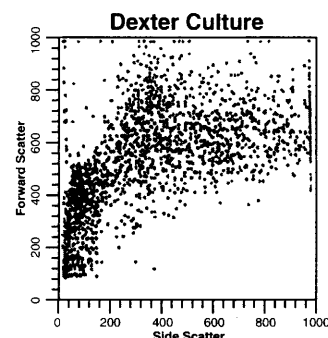
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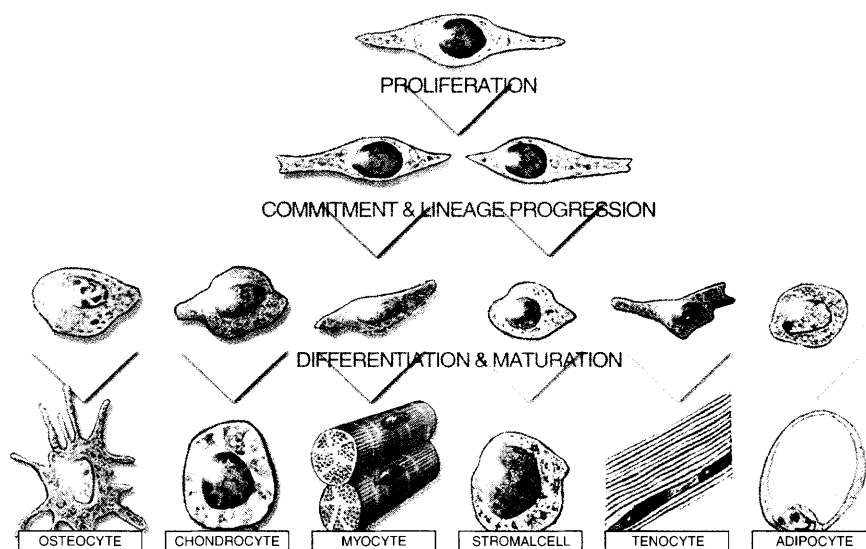
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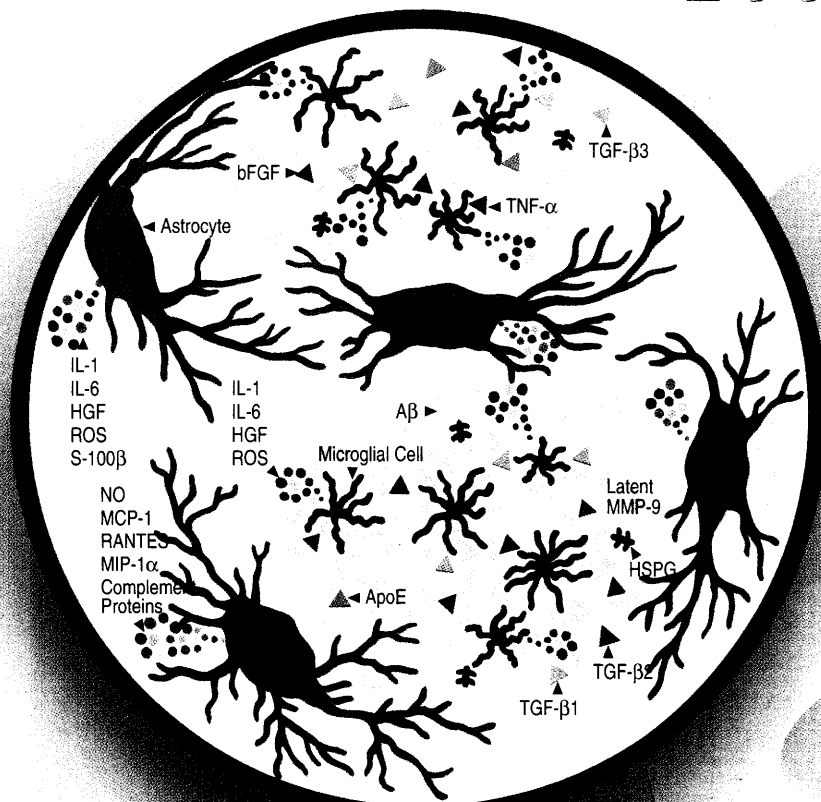
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