

# NEW PRODUCTS

## IMMUNOHISTOCHEMISTRY KITS

The InnoGenex IHC (immunohistochemical) Kit offers sensitive and reliable colorimetric detection of antigens in frozen or paraffin-embedded tissue sections. The kit includes all reagents needed for IHC staining, including secondary antibody, enzyme conjugate, chromogen/substrate, counterstain, mounting medium, protein block, and all required buffers. Reagents are supplied in a pre-titrated, ready-to-use format in precision dropper bottles.

### InnoGenex

For more information call 925-543-1400 or **circle 144** on the Reader Service Card

## PROTEIN SOLUTION PREPARATION

The PAGE-Perfect is a simple, two-step method of concentrating, cleaning, and preparing protein solutions for loading on gels. The user simply treats 1  $\mu$ l to 100  $\mu$ l of protein solution with the Universal Protein Precipitation Agent, which results in the quantitative precipitation of the protein solution. The protein precipitation is not affected by the presence of detergents, chaotropic agents, or other common laboratory agents. The protein precipitate is collected by centrifugation and washed to remove any interfering agents. It is then suspended in the sample loading buffer to load on the gel for electrophoresis.

### Geno Technology

For more information call 314-645-2050 or **circle 145** on the Reader Service Card

## AUTOMATED PLASMID DNA EXTRACTION

The AutoPrep-12 automates one of the most widely performed procedures in molecular biology: plasmid DNA extraction and purification from crude bacterial cultures. The instrument extracts and purifies plasmid DNA from 12 cultures at a time, freeing laboratory personnel for more productive work. It accomplishes this through widely accepted alkaline lysis chemistry and patented filtration and purification steps, all in single-use columns. After placing 1.5-ml aliquots of bacterial culture in the upper chamber of the 12 columns, the user closes the column caps and presses the "start" button. Twen-

### Dynex Technologies/Hybaid

For more information call 703-803-1478 or **circle 146** on the Reader Service Card

ty-five minutes later, the user removes 12 purified plasmid DNA samples. The resulting purified plasmid DNA is suitable for polymerase chain reaction, sequencing, and other typical downstream applications.

## DIGITAL IMAGING AND DETECTION SYSTEM

The Kodak Digital Science Image Station 440CF provides sensitive, quantitative, real-time chemiluminescence detection in a compact benchtop instrument. It also performs fluorescence and chromogenic detection, densitometry and quantitative analysis, and general-purpose imaging of a wide range of sample types, including membranes, gels, and x-ray films. The instrument makes use of an electronically cooled, full-frame-capture



charge-coupled device camera to visualize scientific samples such as gels, blots, bacterial plates, and chromatograms using chemiluminescence, fluorescence, chemifluorescence, and chromogenic detection methods. Very low camera noise permits long integration times and linear data over a dynamic range approaching four orders of magnitude. The system is as sensitive as x-ray film for most chemiluminescence reagents, and demonstrates fluorescence detection sensitivity on the order of picomoles to femtomoles per band on gels and blots.

## CONFOCAL MICROSCOPE

The LSM 5 Pascal Confocal Laser Scanning Microscope is a compact system designed for individual users and small work groups involved in biomedical and materials examinations. The instrument incorporates confocal

### Zeiss

For more information call 800-233-2343 or **circle 148** on the Reader Service Card

### NEN Life Science Products

For more information call 800-551-2121 or **circle 147** on the Reader Service Card

technology, the point scan method for high-resolution image slices, and three-dimensional image reconstruction approaching the limits of physics. The system has applications in such fields as cell biology, neurobiology, molecular biology, genetics, biochemistry, and immunology. The LSM 5 Pascal module is readily fitted onto the motorized versions of high-performance Zeiss upright and inverted microscopes, including the Axioskop 2, Axioskop 2 FS (fixed stage), Axioplan 2, and Axiovert 100.

## DISPOSABLE UV TRANSPARENT CUVETTES

UVettes are disposable ultraviolet (UV) transparent cuvettes. They are manufactured of the highest quality plastic and have a transparency range (220-1000 nm) that allows for measurements in the UV range, as well as the entire visible range. The UVette's funnel-shaped design prevents the capillary effect, so liquids remain in the center measuring area. Volumes from 2000  $\mu$ l down to 50  $\mu$ l can be analyzed.

### Eppendorf Scientific

For more information call 516-334-7500 or **circle 149** on the Reader Service Card

## LITERATURE

*Keystone Scientific Guide to Reversed Phase HPLC of Peptides and Proteins* is a 54-page technical guide that addresses many of the variables to consider when selecting a column for reversed-phase high-performance liquid chromatography (HPLC). Because of advancements in column packing, simpler mobile phases and increased selectivity are possible, and the guide includes many tips for optimizing your separation method. The guide's many chromatograms show analyses of proteins and peptides with various packings.

### Keystone Scientific

For more information call 800-437-2999 or **circle 150** on the Reader Service Card

Newly offered instrumentation, apparatus, and laboratory materials of interest to researchers in all disciplines in academic, industrial, and government organizations are featured in this space. Emphasis is given to purpose, chief characteristics, and availability of products and materials. Endorsement by *Science* or AAAS of any products or materials mentioned is not implied. Additional information may be obtained from the manufacturers or suppliers named by circling the appropriate number on the Reader Service Card and placing it in a mailbox. U.S. postage is free.

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### POSITIONS OPEN

#### BIOLOGY FACULTY

The Department of Biology, University of Louisiana at Lafayette, invites applications for a tenure-track position specializing in marine microautotrophs, with an emphasis in physiological processes, cellular biology, or ecosystem dynamics. This position supports the Doctoral program in environmental and evolutionary biology. Teaching duties include shared participation in a senior/graduate-level protistology course and leadership in an NSF-sponsored program (FIPSE), an active-learning biotechnology track, which serves 24 highly motivated students each semester. The position is intended for a highly qualified and experienced **ASSISTANT** or **ASSOCIATE PROFESSOR** and offers a competitive salary. Candidates are expected to develop active research programs and seek extramural funding. The Department of Biology (see [website: www.usl.edu/Departments/Biology/index.html](http://www.usl.edu/Departments/Biology/index.html)) consists of 30 faculty with research interests ranging from molecular to ecosystem studies and enrolls about 70 graduate students, mostly in the Doctoral program. Departmental resources are supplemented by specialized equipment and laboratories provided in the University's Microscopy Center, Center for Advanced Computing Studies, Primate Research Center, Center for Environmental and Energy Studies, Laboratory for Crustacean Research, and Center for Molecular Evolution. Resources and adjunct faculty are also provided through affiliations with the Louisiana Universities Marine Consortium (LUMCON, which provides marine laboratory and vessel access), the USGS National Wetlands Research Center, and the NOAA Estuarine Habitats and Coastal Fisheries Research Center.

Applicants should submit curriculum vitae; selected reprints; a concise statement of research goals; and names, addresses, e-mail addresses, and telephone numbers of at least three references. Review of applications will begin 17 January 2000 and continue until the position is filled. Direct application to: **Faculty Development Search Coordinator, Department of Biology, University of Louisiana at Lafayette, Lafayette, LA 70504-2451. Affirmative Action/Equal Opportunity Employer.**

#### CANCER PHARMACOLOGIST

The Department of Basic Medical Sciences and the Purdue University Cancer Center, in cooperation with the Walther Cancer Institute, invites applications for a full-time, tenure-track **ASSISTANT** or **ASSOCIATE PROFESSOR**. A Ph.D. or equivalent degree and at least two years of postdoctoral experience are required. Candidates with a D.V.M., Pharm.D., or M.D. degree will be given preference. The successful candidate will be expected to develop a creative, extramurally funded cancer-focused research program complementing existing programs within the Department, School, and the NCI-designated Purdue Cancer Center. The successful candidate will have teaching responsibilities in pharmacology to veterinary, medical, and graduate students. A commitment to the goals of the Department and Cancer Center are important. Preference will be given to a person with a strong interest in cancer drug development. The Department and Cancer Center are well equipped with modern core facilities.

Applicants should send a curriculum vitae; relevant reprints; a one- to-three-page description of research and teaching goals; and a list of three references (including address, telephone, FAX, and e-mail) to: **Dr. Gordon L. Coppoc, Search Chairman, Department of Basic Medical Sciences, School of Veterinary Medicine, Purdue University, West Lafayette, IN 47907-1246.** Review of applications will begin immediately and continue until the position is filled. The position is available 1 July 2000, but the start date is negotiable. The Walther Cancer Institute partially supports this position. Additional information is available at [website: http://www.vet.purdue.edu/bms/positions/index.html](http://www.vet.purdue.edu/bms/positions/index.html). *Purdue University is an Equal Access/Equal Opportunity/Affirmative Action Employer, fully committed to achieving a diverse workforce. Minority and female applicants are encouraged.*

### POSITIONS OPEN

#### FACULTY POSITIONS IN BIOLOGICAL OCEANOGRAPHY at the University of Washington

The School of Oceanography at the University of Washington invites applications for two faculty positions in biological oceanography. Appointment is anticipated at the **ASSISTANT PROFESSOR** rank, but candidates with exceptional qualifications may be considered for appointment at the rank of **ASSOCIATE PROFESSOR** or **PROFESSOR**.

1. The role of planktonic phototrophs in marine biogeochemical cycles: We seek a person whose field research integrates biochemical, physiological, and/or molecular approaches to understand the distribution and abundance of functional groups of phytoplankton important to oceanic biogeochemical processes. The successful candidate will be expected to apply quantitative and/or modeling approaches in the research.

2. Sensory, behavioral, and functional ecology of marine zooplankton: We seek a person whose research utilizes quantitative and/or modeling approaches to investigate the roles of behavior and sensory physiology as they affect the distribution, abundance, and dynamics of zooplankton.

Ph.D. degree is required by the date of appointment. Candidates will be expected to teach at the undergraduate and graduate levels.

Applicants should send a curriculum vitae, a statement of research and teaching interests, a list of publications, recent reprints, and the names of four references to:

**Professor Bruce W. Frost, Director**  
University of Washington  
School of Oceanography  
Box 357940  
Seattle, WA 98195-7940

Informal requests for further information may be directed to Dr. Bruce Frost via e-mail: [frost@ocean.washington.edu](mailto:frost@ocean.washington.edu). Priority will be given to applications received before February 15, 2000.

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

Brooklyn College/CUNY invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level in the Department of Biology beginning September 2000. We seek a broadly trained Microbiologist who uses cell and molecular biology approaches. The faculty member is required to develop a research program that generates external funding and trains undergraduate and graduate research students. Applicants must have a Ph.D. degree, postdoctoral training, publications, and a strong commitment to undergraduate education. A complete application consists of curriculum vitae, statement of research plans, and three letters of recommendation (to be sent directly from three references). Review of applications will begin on November 15, 1999, and continue until position is filled. Apply to: **Dr. Joan Rome, Office of Personnel Services, Brooklyn College, 2900 Bedford Avenue, Brooklyn, NY 11210. An Affirmative Action/Equal Employment Opportunity/IRCA/Americans with Disabilities Act Employer.**

#### TENURE-TRACK FACULTY POSITION

The Department of Biomedical Sciences at Marquette University invites applications for a tenure-track faculty position at the level of **ASSISTANT PROFESSOR** to teach in pharmacology courses to undergraduate and professional students. The departmental research focus is neuroscience, and successful candidates will be expected to develop an independent, funded research program in an area of neuroscience. Ph.D. in pharmacology and/or pharmacology teaching experience preferred. Send a curriculum vitae, description of research interests, and the names of three references by March 1, 2000, to: **Search Committee, Department of Biomedical Sciences, Marquette University, P.O. Box 1881, Milwaukee, Wisconsin 53201-1881. Affirmative Action/Equal Opportunity Employer.**

## POSTDOCTORAL in CANCER IMMUNOTHERAPY Department of Immunology/Medicine at Roswell Park Cancer Institute

Candidate will join an active collaborative cancer vaccine program initiative. Several different vaccination strategies for human B-cell lymphomas are being tested in this joint venture between the Departments of Immunology and Medicine. In the laboratory component of this project patients' dendritic cells pulsed with synthetic tumor associated V<sub>H</sub> region peptides or dendritic cells transfected with a gene encoding part or all of the V<sub>H</sub> region are being tested both *in vitro* and in SCID mouse models for their ability to provoke tumor specific immune responses in patients' peripheral blood leukocytes. The candidate will also have the opportunity to contribute to tumor vaccination clinical trials. We are looking for an individual with training in molecular biology, biochemistry, genetics or immunology who has an interest and commitment to apply basic science skill to cancer immunotherapy.



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Applicants with full C.V. should be addressed to:

Richard B. Bankert, VMD, PhD  
Department of Immunology  
Roswell Park Cancer Institute  
Elm & Carlton Streets  
Buffalo, NY 14263

RPCIC is an AA/EOE

## FACULTY POSITIONS

### Center for Molecular Medicine Maine Medical Center Research Institute South Portland, Maine

The newly created Center for Molecular Medicine is currently undergoing a vigorous expansion. The Center's major focus is on the molecular mechanisms of human disease, including diseases of the cardiovascular system, bone and mineral metabolism, and cancer. Applications are invited at the assistant, associate and full member levels. Individuals using modern cell, molecular and/or genetic (vertebrate or invertebrate) methods to elucidate molecular mechanisms of human disease are encouraged to apply. Center faculty will have access to excellent resources including generous start-up funds and space in a new state-of-the-art research building presently under construction. In addition, the successful candidate will be encouraged to interact with existing clinical programs at the Maine Medical Center, as well as participate in graduate education programs.

The successful candidate will be expected to establish an independent basic research program that will attract extramural funding and will complement existing research programs at the Center. These include protein trafficking pathways, tumor development, vascular remodeling, functional characterization of growth factor, cytokine and cell fate determinant signaling pathways, and the molecular genetics of human bone development, tissue/organ repair and neoplasia.

Rank and salary will be commensurate with qualifications and experience. The Portland area offers an environment rich in cultural and recreational opportunities. Applicants should send a curriculum vitae, three letters of reference and a brief statement of research interests to: Dr. Robert E. Friesel, Search Committee Chair, Maine Medical Center Research Institute, Job Code: F431SM, 125 John Roberts Rd., South Portland, ME 04106.



## Maine Medical Center

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## FELLOWSHIPS

### GRADUATE FELLOWSHIPS CENTER FOR THE STUDY OF EVOLUTION AND THE ORIGIN OF LIFE UCLA

ORIGIN OF THE UNIVERSE...  
FORMATION OF THE EARTH...  
BEGINNINGS OF LIFE...  
EVOLUTION OF THE BIOSPHERE...  
ADVENT OF *HOMO SAPIENS*...

CSEOL invites applications for five graduate fellowships for 2000-2001. *In addition to support provided Fellows by UCLA departments*, CSEOL will grant each Fellow a stipend of \$5,000 per year, *for each of the first two years* of graduate study, with no teaching or other duties. Stipends may be used for any purpose the Fellow deems appropriate – travel, lodging, attendance at scientific meetings, purchase of books, computers, research equipment – for *any purpose*, without restriction. Fellows are included in a select group of graduate students invited to interact with Center faculty in a weekly dinner/seminar/discussion series. Applicants should be planning to carry out doctoral research under the direction of a CSEOL faculty member in a subject area relating to **virtually any aspect of evolution – of the cosmos, of the solar system, of Earth, of the environment, of life, of humans**. Areas of particular interest for 2000-2001 include (1) origin and early evolution of life; (2) biochemical evolution and molecular phylogeny; and (3) planetary evolution and astrobology. Faculty are members of the **UCLA Departments of Anthropology, Atmospheric Sciences, Biology, Chemistry & Biochemistry, Computer Science, Earth & Space Sciences, Economics, Geography, History, Microbiology, Philosophy, Physics & Astronomy, Psychology, and Sociology; the School of Medicine; the School of Public Health; the Institute of Geophysics and Planetary Physics; and the Molecular Biology Institute**. Fellowship applicants must apply (preferably, by 18 February 2000) both to an appropriate academic department and to CSEOL. For application forms and a list of CSEOL members, contact:

CSEOL Fellows Committee  
Geology Building, Room 5687  
University of California, Los Angeles  
Los Angeles, CA 90095-1567  
Telephone: (310) 825-1170 FAX: (310) 825-0097  
e-mail: [mantonya@ess.ucla.edu](mailto:mantonya@ess.ucla.edu)

## Johnson & Johnson

### CONSUMER PRODUCTS COMPANY Division of Johnson & Johnson Consumer Companies, Inc.

Johnson & Johnson Consumer Products, Inc., located in Skillman, New Jersey, produces a wide range of products, the most familiar of which is the line of baby and child care products, home health care products such as BAND-AID Brand Adhesive Bandages and an extensive line of skin care products. The Skin Research Center conducts basic research and is committed to the identification of new insights and targets for skin care and drug discovery. We are currently looking for a postdoctoral fellow to join our research group.

### Postdoctoral Scientist Molecular and Cellular Biology

The successful candidate will be involved in molecular and cellular studies of cell-cell interactions and of the regulation of genes involved in skin pigmentation, contributing to the discovery of potential new therapeutics and skin care agents.

The qualified candidate will have a Ph.D. in the biological sciences, and familiarity with molecular and cellular mechanisms, signal transduction, and cell-cell communication. Experience with molecular and cellular biology techniques, mammalian tissue culture and microscopy is required. The ability to work in a team and good communication skills are a must. Experience with computerized image analysis is desired.

As a valued team member, you'll receive a competitive salary and great benefits including medical/dental, a 401(k), a pension plan and a comprehensive wellness program. Please apply directly on-line at our web site [www.jnj.com](http://www.jnj.com) or forward a scannable resume, noting operating company as Johnson & Johnson Consumer Products, Inc. and Req. Code 993950SCI, to: Johnson & Johnson Recruiting, P.O. Box 16597, New Brunswick, NJ 08906-6597. Please note, resumes received electronically are reviewed within 24 hours. Mailed resumes are reviewed within 3 business days after receipt. We are an equal opportunity employer totally committed to diversity.

# Notice of Vacancy/ Call for Nomination

## Canadian Institutes of Health Research President (Full-time Position)

In the February 1999 budget, the Government of Canada announced its intention to create the Canadian Institutes of Health Research (CIHR). As a future agency of the Crown, the CIHR will link health researchers from a broad spectrum of disciplines to work toward improving the health of Canadians. Through increased funding and improved strategic coordination, the organization will transform the way health research is conducted in Canada. In anticipation of the establishment of the CIHR, individuals are invited to submit an application or nominations for the CIHR President position. Staffing will only be completed once the legislation is in force.

The President will act as Chair of the Governing Council and will advise the Minister of Health in respect of any matter relating to health research or health policy. The President will be responsible for the management and operations of the organization and will provide leadership and advice to the Governing Council on all matters affecting the policies, functions and direction of the CIHR. The President will also be responsible for setting the strategic direction of the CIHR, for promoting collaboration among various institutes and for developing an integrated health research agenda.

### Location: National Capital Region

The successful candidate should have a medical degree or doctoral degree in health research from a recognized university and be a Canadian citizen or landed immigrant. The preferred candidate should possess exemplary leadership skills and an extraordinary capacity for integrating the aspirations and capabilities of Canada's diverse health research community. Qualifications should include extensive experience in health research and superior management skills acquired by leading a large organization or company and in dealing with governments. The chosen candidate will play a leadership role in the health research sector to attract and

retain talented researchers and to command the resources needed to further the health research enterprise in Canada. This role will require that the qualified candidate enlist the involvement and support of a broad range of stakeholders from the provinces, universities and research centres, partners such as the voluntary sector and international research organizations in order to fully realize the mission of the CIHR.

The preferred candidate will also possess a sound understanding of the health research sector in Canada and abroad, as well as an appreciation of the objectives and priorities of the CIHR. Initiative, superior communication and negotiation skills, and the ability to build the identity and recognition of this new organization are also required.

Proficiency in both official languages is an asset.

This notice has been placed to assist the Governor in Council in identifying qualified candidates for this position in anticipation of the approval by Parliament of the CIHR legislation. It is not, however, intended to be the sole means of recruitment.

An application package or nomination form may be obtained and submitted at the address below:

**CIHR Transition Secretariat**  
Holland Cross  
11 Holland Avenue  
Tower "A"  
5th Floor, Room 511  
Ottawa, Ontario  
K1A 0K9  
Telephone: (613) 946-8036  
Fax: (613) 946-8040

Or through the CIHR Transition Secretariat website at [www.cihir.org](http://www.cihir.org) by January 10th, 2000.

Further information is available upon request.

Bilingual notices of vacancies will be produced in an alternative format (i.e. audio cassette, diskette, braille, large print, etc.) upon request. For further information, please contact Canadian Government Publishing, Public Works and Government Services Canada, Ottawa, Ontario, K1A 0S9. Tel: (819) 956-4800 or 1-800-635-7943.



Canada

# MIT

## FACULTY POSITIONS

The MIT School of Engineering is continuing to build leadership teaching and research programs in Bioengineering across a broad range of important new areas.

### MOLECULAR BIOMECHANICS

The MIT Division of Bioengineering and Environmental Health [BEH] and Department of Mechanical Engineering [ME] seek to jointly hire an outstanding faculty member in the area of Molecular Biomechanics, with a focus on mechanical and rheological aspects of biological systems at the cellular and sub-cellular levels. The successful candidate should hold a doctoral degree in an appropriate discipline and have demonstrated evidence of leadership potential in research and teaching, combining strong expertise in experimental microscopic physical or optical technologies and molecular cell biology. Teaching efforts will be shared between BEH and ME, and research opportunities will be available in a variety of MIT laboratories and centers.

For the position above only, applicants should submit a curriculum vitae and research/teaching summary, along with suggested references, to Professor R.D. Kamm, Department of Mechanical Engineering and Division of Bioengineering & Environmental Health, MIT Building 3, Room 260, Cambridge, MA 02139. Please specify position of interest. Review of applications will begin in January 2000.

### COMPUTATIONAL BIOLOGY

The MIT Division of Bioengineering and Environmental Health [BEH] and Department of Electrical Engineering and Computer Science [EECS] seek to jointly hire an outstanding faculty member in the area of Computational Biology, with the aim of bringing rigorous computational modeling/analysis approaches to bear on problems and technologies arising from consideration of complex genetic, molecular, and cellular systems. The successful candidate should demonstrate evidence of leadership potential in research and teaching, combining strong expertise in both biology and computational modeling/analysis. Teaching efforts will be shared between BEH and EECS, and research opportunities will be available across a wide spectrum of MIT inter-disciplinary centers and laboratories.

### MICROSYSTEMS BIOENGINEERING

The MIT Division of Bioengineering & Environmental Health [BEH] and Department of Electrical Engineering & Computer Science [EECS] seek to jointly hire an outstanding faculty member in the area of Microsystems Bioengineering, bringing micro-scale technologies to bear on biologically-oriented applications at the molecule, cell, and/or tissue levels with the aim of creating innovations in biosensors, diagnostics, implantable devices, and/or basic biological research instrumentation. The successful candidate should demonstrate evidence of leadership potential in research and teaching, combining strong expertise in both biology and microsystems engineering. Teaching efforts will be shared between BEH and EECS, and research opportunities will be available across a wide spectrum of MIT inter-disciplinary centers and laboratories.

For the two positions above, applicants should submit a curriculum vitae and research/teaching summary, along with suggested references to Professor D.A. Lauffenburger, Co-Director Division of Bioengineering & Environmental Health, MIT Building 56, Room 341, Cambridge, MA 02139. Review of applications will begin in January 2000.



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The qualified candidate we select will develop improved animal models for studying anti-tumor agents with novel modes of action. Responsibilities include devising molecular biology and biochemical techniques to sensitively detect tumor growth, angiogenesis and metastasis; coordinating with one or more projects to carry out in vivo testing of compounds on these tumor responses and reporting results. To qualify, candidates must possess at least 2 years of postdoctoral cancer research experience, familiarity with animal models for evaluating anti-tumor agents, as well as experience with surgery, cell culture, biochemical and molecular biology techniques. Excellent oral and written communication skills and a demonstrated track record of innovative research are essential.

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## FACULTY POSITIONS

The National Jewish Medical and Research Center, as part of its centennial year commitment to fundamental research, has opened two new faculty positions in the Program in Cell Biology (PCB). This newly formed Program is interdisciplinary and will consider applications from all subspecialties of Cell Biology. For one position we seek an individual with experience in proteomics or genomics with experience in bioinformatics. Applications from all academic levels are invited. All faculty in the Program in Cell Biology have joint appointments at the University of Colorado Health Sciences Center.

Please send CV and three references to:

National Jewish Medical  
and Research Center  
Attn: Dennis R. Voelker, Ph.D.  
Department of Medicine  
1400 Jackson St.  
Denver, CO 80206  
FAX: (303) 398-1806  
E-mail: [voelkerd@njc.org](mailto:voelkerd@njc.org)

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Medical and Research Center

AA/EOE

## AWARDS

CLINICAL RESEARCH IN  
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### THE DORIS DUKE CHARITABLE FOUNDATION



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The Doris Duke Innovation in Clinical Research Award will provide two years of research funding at \$100,000/year for clinical researchers working on new, innovative approaches in cardiovascular disease research.

Innovative research is defined as research that uses new paradigms to approach problems, develops novel experimental techniques, or adapts existing methods or models developed in other disciplines to solve problems in a new area. The research must have direct application to the prevention, diagnosis, or treatment of cardiovascular diseases.

Letters of Intent, due February 8, 2000, will be accepted from individuals with an advanced degree (M.D., Ph.D. or M.D./Ph.D. or the equivalent) work-

ing in academic medical centers or other not-for-profit institutions. Pairs of investigators working on new cross-disciplinary collaborative approaches at the same institution or different institutions are encouraged to apply. The Letters of Intent will be reviewed and select individuals will be invited to submit short proposals. Invitations to submit proposals will be issued on March 15, 2000.

To receive the program announcement for the Innovation in Clinical Research Award 2000, please e-mail your request to our grant contractor at [ddcf@aibs.org](mailto:ddcf@aibs.org) or refer to our website at [www.ddcf.org](http://www.ddcf.org).

*The mission of the Medical Research Program of the Foundation is to support the prevention and cure of disease by funding medical research.*

## GLOBAL OPPORTUNITIES



### RIKEN Brain Science Institute, Japan

#### LABORATORY HEAD: AGING AND PSYCHIATRIC RESEARCH GROUP

RIKEN Brain Science Institute (RBSI) promotes three strategic research areas: "understanding the brain", "protecting the brain" and "creating the brain". RBSI is currently accepting applications for a laboratory head post in the aging and psychiatric research group of the "protecting the brain" area.

The new laboratory will start early in 2000 and concentrate on the pathogenesis of various psychiatric disorders including childhood-onset problems, mental retardation and autism. The aging and psychiatric research group already includes laboratories for Alzheimer's Disease (Akihiko Takashima), Proteolytic Neuroscience (Takaomi Saido) and Molecular Psychiatry (Takeo Yoshikawa). For further information about RBSI please see our web site: <http://www.riken.go.jp>.

The laboratory head is required to recruit a team of 5-10 researchers including technicians and will receive generous research support for 5 years. Progress will be assessed every 5 years by international committee. The research arrangement may be renewed if appropriate.

Applicants should send a full curriculum vitae listing all publications and a statement of their research interests and plans (max 2,000 words) plus names, addresses and telephone numbers of three references to:

Search Committee 12, Brain Science Institute, RIKEN, 2-1 Hirosawa, Wako, Saitama 351-0198, Japan.

Deadline for applications: Feb. 10, 2000.

For further information, please write to the search committee (FAX: +81-48-462-4914 or email: [search12@brain.riken.go.jp](mailto:search12@brain.riken.go.jp))

## Scientists

John B. Pierce Laboratory, affiliated with Yale University, seeks outstanding junior or mid-level scientists investigating biological interactions with the environment. Joint faculty appointments are anticipated in appropriate departments of Yale University School of Medicine. Research may focus on humans or animals at the behavioral, physiological, or cellular/molecular level. The Laboratory seeks applicants with Ph.D. or M.D. degrees to complement ongoing health-related research programs in cardiovascular physiology, pulmonary function, and sensory and cellular neuroscience (further information is available at our web site <http://www.jbpierce.org>). The Laboratory offers competitive salary, benefits, start-up, and an outstanding work environment.

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

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

*The John B. Pierce Laboratory is an affirmative action, equal opportunity employer, which strongly encourages applications from women and minority candidates.*

PENNSTATE



University Park

## DIRECTOR OF DIAGNOSTIC SERVICES

### Department of Veterinary Science

The Department of Veterinary Science, College of Agricultural Sciences at Penn State University is seeking applicants for the tenured position of Director of Diagnostic Services and coordinator of field investigation and extension services. The Director reports to the Head of the Department of Veterinary Science. The Animal Diagnostic Laboratory (ADL) is a part of a tripartite laboratory system (PADLS) which is accredited by the AAVLD and provides services to the livestock industry and veterinarians throughout Pennsylvania.

**Responsibilities:** The director will represent the ADL in the preparation of diagnostic budgets, communicate with state and federal officials and assist in integrating the programs involving field investigations and extension. The director will coordinate the diagnostic services in virology, bacteriology, pathology, immunology, parasitology, biocontainment, waste management and molecular diagnostics at ADL. The director will be responsible for the continuing development and implementation of quality assurance, standard operating procedures and oversight of the laboratory information management systems (LIMS). The director will represent the ADL at regional, state and national meetings pertinent to diagnostics and work closely with the Department Head to integrate the mission of the various components of the outreach programs in animal health within the department. The position is budgeted 75% diagnostics/research and 25% cooperative extension.

**Qualifications:** Interested applicants must have a DVM and PhD or equivalent degrees, have board certification in a specialty area and extensive experience in veterinary medicine and also the components of an extension program. The candidate must have demonstrated ability in the administrative area and strong communication skills. The individual will also be involved with graduate, undergraduate and residency training programs in veterinary medicine and their development. The ideal candidate should have strong credentials in personnel management, grantsmanship and promote team building with a vision of the future programs in veterinary diagnostic medicine and their integration in a complete outreach program.

**Salary:** The salary will be competitive and commensurate with experience and qualifications.

**To Apply:** Please send a letter of application describing your interests, curriculum vitae and the names of three references to: **Dr. C. Channa Reddy, Pos #: SCL, Department of Veterinary Science, College of Agricultural Sciences, Penn State University, 115D Henning Building, University Park, PA 16802. Email address: ccr1@psu.edu.**

**Deadline:** Applications will be accepted until February 1, 2000 or until the position is filled. AA/EOE

## Tenure Track Faculty

The Kennedy Krieger Research Institute, in conjunction with The Johns Hopkins School of Medicine, is seeking tenure track faculty members to establish competitive research programs in any of a broad range of disciplines related to brain development, repair, injury, and disease. Research areas of particular interest include molecular and cellular biology, molecular genetics, metabolism, mitochondrial biology and neurophysiology. Qualifications include a Ph.D. and/or M.D. degree and a track record of scientific accomplishment.

Salary and academic rank will be commensurate with qualifications and experience. Candidates should submit inquiries, curriculum vitae, and names of three references to: **Karen R. Cox, Research Administrator, The Kennedy Krieger Research Institute, 707 N. Broadway, Baltimore, MD 21205.**

The Kennedy Krieger Research Institute and Johns Hopkins School of Medicine actively encourage interest from women & minorities and are Equal Opportunity Employers. EOE, M/F/D/V.



**Kennedy Krieger Institute**

## FOOD AND DRUG ADMINISTRATION DIRECTOR, NATIONAL CENTER FOR TOXICOLOGICAL RESEARCH

The Food and Drug Administration (FDA) is seeking candidates for the position of the Director, National Center for Toxicological Research (NCTR) of the FDA. This position will be filled as either a Senior Executive Service or Senior Biomedical Research Service position. The incumbent provides overall direction and management for the Center; coordinates and works to integrate NCTR's research programs with the research needs of the other FDA Centers/Offices; serves as the scientific liaison between FDA and other government agencies, academic institutions and private organizations; and is responsible for the direction, performance and quality of NCTR research efforts. It is desirable that candidates be nationally or internationally recognized as an authority in toxicology or a related scientific discipline. The salary range is \$108,305 to \$151,800. The position is located in Jefferson, Arkansas. Further information regarding qualification requirements and procedures for applying for the position may be obtained from Ms. Arlene Karr at 301-827-4183 or Ms. Laura Taylor at 301-827-4178, or from the Office of Personnel Management website at [www.usajobs.opm.gov](http://www.usajobs.opm.gov).

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



**FLORIDA ATLANTIC UNIVERSITY  
SCHMIDT SENIOR FACULTY  
FELLOW  
DEPARTMENT OF BIOMEDICAL  
SCIENCE**

Florida Atlantic University is pleased to request nominations and applications for Schmidt Senior Faculty Fellows in Biomedical Science. Schmidt Senior Faculty Fellows will provide the core senior faculty in the Department of Biomedical Science. We are seeking senior level scientists at the full professor level with excellent records of research and extramural funding. The current areas of strength in biomedical research in the Charles E. Schmidt College of Science include complex systems and brain sciences, molecular and cellular biology of cancer, hormonal regulation of gene expression, bioactive peptides, therapeutic potential of natural products and medical imaging. The research programs of the Schmidt Fellow can complement these but may also represent a new area of research within biomedical science. The position comes with excellent start-up funds and salary.

This initiative has been underwritten by an extraordinary gift of \$15 million from the Schmidt Family Foundation matched by an equal amount from the State of Florida. A 90,000 sq. ft. facility is being designed to house the Department and an endowment established to ensure ongoing support for research and teaching of distinction. The Schmidt Senior Faculty Fellows provide scientific and academic leadership for the Department and participate in the joint FAU/University of Miami School of Medicine Partnership for Quality Medical Education.

Applicants should send a curriculum vita along with a cover letter, outlining research and teaching interests, and a list of three references to **Dr. Dwight Warren, Associate Dean and Chair, Department of Biomedical Science, Charles E. Schmidt College of Science, Florida Atlantic University, PO Box 3091, Boca Raton, FL 33431** by February 15, 2000.

**ASSISTANT/ASSOCIATE PROFESSOR  
DEPARTMENT OF BIOMEDICAL SCIENCE**

Florida Atlantic University is seeking to appoint a faculty member at the rank of assistant/associate professor in the Department of Biomedical Science. The faculty hired as part of this department will have demonstrated the capability to perform outstanding biomedical research. Excellent start-up funds and salaries are available.

The faculty member will be expected to maintain an active research program and obtain external funding to support their research program. The faculty member will be expected to contribute to the teaching programs of the Department of Biomedical Science and participate in teaching of medical students in conjunction with the University of Miami School of Medicine. Applicants should send a curriculum vitae, along with a cover letter outlining their teaching and research interests, and a list of three references, by February 15, 2000 to **Dr. Dwight W. Warren, Associate Dean, Charles E. Schmidt College of Science, Florida Atlantic University, PO Box 3091, Boca Raton, FL 33431**.

*Florida Atlantic University is an Equal Opportunity/Access/  
Affirmative Action Institution*

*All positions are contingent upon budget feasibility*



**MAYO CLINIC  
GMP VECTOR PRODUCTION FACILITY**

Production Manager and Production/Quality Control Staff are sought to operate a new GMP Vector Production Facility established to support preclinical and phase I clinical gene therapy studies at Mayo Clinic, Rochester, Minnesota. A range of different viral and nonviral vectors will be produced in the facility. Experience in molecular biology, cell culture and/or laboratory management is required. Previous relevant experience is essential. Competitive salary and benefit package available.

Applications along with curriculum vitae and bibliography should be sent to:

**Stephen J. Russell, MD, PhD  
c/o Ms. Maureen Craft  
Mayo Clinic  
Guggenheim 18th Floor  
200 First Street Southwest  
Rochester, MN 55905**

Informal inquiries should be directed to Dr. Stephen J. Russell by e-mail at: [sjr@mayo.edu](mailto:sjr@mayo.edu). The deadline for applications is December 31, 1999.

For more information about the Mayo Clinic Molecular Medicine Program you can visit our website at: <http://www.mayo.edu/research/mmp/>. For more information about Rochester, Minnesota and Mayo Foundation, you can visit the websites at: <http://www.rochester.mn.com/> and: <http://www.mayo.edu/>.

*Mayo Foundation is an Affirmative Action and Equal Opportunity Employer and Educator.*

**GLOBAL OPPORTUNITIES**

理化学研究所脳科学総合研究センター

**研究員/テクニカルスタッフの募集**

<研究内容>成体でも神経網膜が再生する特殊なモデルを用いて、分化転換、神経細胞の再生(再発生)、神経幹細胞の同定、axon guidance、アポトーシスなどの領域の研究を行い、高等動物の中樞神経系障害の治療への応用を目指します。

<応募資格>研究員:博士号取得者(取得見込みを含む)で、生化学、分子生物学、細胞生物学、実験発生学、生物物理学など、いずれかに経験を有する方。

テクニカルスタッフ:修士又は大卒。上記いずれかの領域の経験・専門技術を有する方。

<提出書類>研究員:1)履歴書、2)研究業績リストと主要論文別冊、3)主要業績の要約(2400字以内)、4)今後の抱負、5)推薦者(現指導者を含む3名)の氏名、連絡先、6)どの広告を見たか。テクニカルスタッフ:上記の1)、4)、5)、6)に加え、2)と3)のうち提出可能なもの。

<募集期間>適任者が集まり次第募集を締め切ります。

<選考方法>書類審査後、面接。

<待遇>理化学研究所の職員規定による。

<書類提出先>〒351-0198 埼玉県和光市広沢2-1 理化学研究所脳科学総合研究センター 神経再生研究チーム 梶原一人(かじわらかずと)

電話:048-467-9791、FAX:048-467-9795

e-mail: [kajiwara@cmgm.stanford.edu](mailto:kajiwara@cmgm.stanford.edu)

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

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

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

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

Interested candidates should submit their curriculum vitae to **Dr. Oliver Sartor, Director, Stanley S. Scott Cancer Center, Suite 620, 2025 Gravier Street, New Orleans, Louisiana 70112.**

**DIRECTOR**

**Division of Comparative  
 Medicine**

The Johns Hopkins University School of Medicine is seeking an exceptional individual to lead our Division of Comparative Medicine. Applicants should have evidence of leadership qualities and demonstrated outstanding abilities in research and teaching.

Applicants should also have knowledge of clinical veterinary medicine, animal pathology, and structures and policies for animal care and use in a University setting.

Please send letter of application, curriculum vitae and bibliography to:

**Richard J. Traystman, PhD**  
**Chair, Comparative Medicine Search**  
**Johns Hopkins University**  
**School of Medicine**  
**720 Rutland Avenue, SOM 100**  
**Baltimore, MD 21205-2196**

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 Opportunity Employer*



**Biochemist**

**Who we are**

Our global Pharmaceutical Research and Development organisation is responsible for the development of dosage forms for new active ingredients. Further tasks include research on novel drug delivery methods and the evaluation of new formulation technologies.

**The position**

As head of a laboratory in the Formulation Research section, based in Basel, Switzerland, you will develop in-vitro models for the simulation of lipid digestion in the GI-tract. You will also investigate the effect of drug molecules and formulations on the digestive process. In addition, you will study the effect of ingredients on the biological activity of digestive enzymes.

**Who you are**

You hold a PhD in biochemistry. Post-doctoral or industrial experience in the above fields are essential for this challenging position. You are interested in innovative approaches and interdisciplinary teamwork and have good communication skills. A knowledge of German is desirable but not essential.

**Who to contact**

If your background and experience fit the above profile, and you are interested in this position, please send your application with full supporting documentation to: F. Hoffmann-La Roche Ltd, Mr Ralph Gysin, PSPB-1, 52/210, P.O. Box, CH-4070 Basel, quoting reference: Gr2567.

Pharmaceuticals

**POSITIONS OPEN**

**CHAIR OF DEPARTMENT OF BIOLOGICAL SCIENCES**

Auburn University invites applications and nominations for the position of Chair of the newly formed Department of Biological Sciences. This department was created from the merger of the Department of Botany and Microbiology and the Department of Zoology within the College of Sciences and Mathematics. The Department of Biological Sciences has 36 faculty with strengths in conservation biology, ecology and evolutionary biology, cell and molecular biology, microbiology, and physiology. The department offers M.S. and Ph.D. degrees in biological sciences and is responsible for core offerings in general biology. There are currently 547 undergraduate majors and 70 graduate students in the department. The successful candidate should have credentials for appointment as **FULL PROFESSOR** and be a dynamic leader with strong interpersonal skills, demonstrated administrative abilities, a record of research productivity/extramural support, and demonstrated excellence in teaching. The department chair will be expected to function as an administrative scholar, providing leadership for programmatic development through collaboration with faculty in order to strengthen and expand existing areas of teaching and research. The individual will oversee personnel/budget management, faculty recruitment, and aggressively pursue an endowment for the department. It is also expected that the individual will represent the department with commitment to the Alabama Agricultural Experiment Station, alumni, and granting agencies. Development of a nationally recognized program of excellence in modern biological sciences has been identified as a top University priority. The department chair will play a significant role in the design of a new, state-of-the-art instructional facility that will house biological sciences and chemistry teaching. Applicants should submit a detailed curriculum vitae, a statement that addresses administrative philosophy, personal teaching and research goals, and a vision statement for this newly-developed department (see [website: http://www.auburn.edu/cosam/dept.html](http://www.auburn.edu/cosam/dept.html) for further information), and have three letters of reference sent to: **J. H. Hargis, Search Committee Chair, Department of Chemistry, Auburn University, Auburn, AL 36849**. Review of applications will begin January 3, 2000, and continue until a candidate is recommended for appointment. *Auburn University is committed to Equal Opportunity through Affirmative Action. Women and minorities are encouraged to apply.*

**ASSISTANT PROFESSOR OF VERTEBRATE BIOLOGY:** The State University of New York at Potsdam invites applications for an Assistant Professor of vertebrate biology. Qualifications are a Ph.D. in an area of biology which would prepare one to teach undergraduate courses in comparative anatomy, general physiology laboratory, and general biology. Applications should demonstrate interest as well as competence in teaching undergraduate biology majors and non-majors. Successful applicant will be expected to maintain a research program, which will include participation by undergraduates. Salary \$35,000. Send a letter of application, curriculum vitae, and the names and telephone numbers of at least three references to: **Dr. Albert Robinson, Chair, Department of Biology, SUNY Potsdam, Potsdam, NY 13676**. Application deadline is February 1, 2000. *State University of New York at Potsdam is an Equal Opportunity/Affirmative Action Employer committed to excellence through diversity.*

Chemistry/Biochemistry. Husson College seeks applications for a **FULL-TIME RANKED FACULTY POSITION** in chemistry. A Ph.D. in chemistry or biochemistry is required. The appointee will teach introductory chemistry and develop offerings in organic chemistry. Modest research is expected and funded. Husson College is a small, student-oriented college located in central Maine. Send a cover letter, curriculum vitae, and three letters of recommendation by January 20, 2000, to: **Dr. Jim Parker, Husson College, One College Circle, Bangor, ME 04401**. *Equal Opportunity Employer.*

**POSITIONS OPEN**

**ENDOWED PROFESSORSHIP IN MOLECULAR CELL BIOLOGY**

Trinity University announces a newly endowed position: the Brackenridge Distinguished Professorship of Biology. This is a tenured position at the rank of Professor that carries a highly competitive salary and a variety of ancillary benefits. We seek candidates whose research program is widely recognized and extramurally funded and who demonstrate the potential for meaningful and systematic involvement of undergraduates in their research program. The research area is open to any experimental system using molecular methodology to address fundamental problems in cell biology. Possible specialties include but are not limited to: development, neurobiology, signal transduction, cell cycle, protein targeting, extracellular matrix, cytoskeleton, endomembrane function, and membrane transport. Demonstrated success in and commitment to undergraduate instruction are required. The successful candidate will be expected to develop a course in her/his area of specialization and a course in modern cell biology for majors.

Trinity University is a primarily undergraduate, educational institution located in San Antonio, Texas. The University enrolls approximately 2,500 students and benefits from a substantial endowment. Additional information about the University and Department of Biology is available at [website: www.Trinity.edu](http://www.Trinity.edu). Letters of nomination or applications should be sent to: **Professor Thomas L. Koppenheffer, Department of Biology, Trinity University, San Antonio, TX 78212-7200**. Review of applications will begin February 4, 2000, and continue until the position is filled. *Trinity University is an Equal Opportunity/Affirmative Action Employer. We seek and encourage nominations and applications from men and women who would enhance the diversity of the institution.*

**SENIOR FACULTY POSITION**

The Division of Medicinal and Natural Products Chemistry of the College of Pharmacy at the University of Texas at Austin invites applications for the George H. Hitchings Regent's Chair in Drug Design. Candidates should have an internationally recognized research program at the interface of chemistry and biology that focuses on drug design. The ideal candidate will complement existing divisional research interests and establish interdisciplinary research projects with other departments at the University. The successful candidate is also expected to have a strong commitment to education at all levels. The position carries an excellent salary and a generous start-up package. Send letter of application, curriculum vitae, a summary of research interests, and the names of five references to: **Dr. Chris Whitman, Medicinal Chemistry Division, PHR 4.220B, College of Pharmacy, The University of Texas, Austin, TX 78712-1074**. Applications will be considered until March 1, 2000. *The University of Texas at Austin is an Equal Opportunity Employer.*

Wabash College Biology Department invites applications for a **VISITING ASSISTANT PROFESSOR** in genetics to begin July 1, 2000. The appointment is for one year with the possibility of reappointment for a second year. Ph.D. is required, and teaching experience is desirable. Teaching responsibilities include introductory genetics, advanced genetics, and participation in team-taught courses, which may include introductory biology and senior seminar. The Biology Department is well equipped for teaching and research, and there may be opportunities for the successful applicant to continue his/her research. Please send letter of application; curriculum vitae, including a brief statement of research interests and teaching philosophy; and three letters of recommendation by February 15, 2000, to: **John Munford Biology Department, Wabash College, P.O. Box 352, Crawfordsville, IN 47933-0352**. Questions may be directed to e-mail: [Munfordj@wabash.edu](mailto:Munfordj@wabash.edu). Information about the College and Department is available at [website: http://www.wabash.edu](http://www.wabash.edu). *Wabash College, a liberal arts college for men, encourages applications from women and minorities. Equal Opportunity Employer.*

**POSITIONS OPEN**

**ELON COLLEGE BIOLOGY DEPARTMENT**

Applications are invited for a permanent, full-time position as **ASSISTANT PROFESSOR** of biology starting in August 2000. Applicants must have a Ph.D. degree in the biological sciences. Evidence of excellence in teaching and continuing scholarship is required. Significant teaching responsibilities include human physiology involving computerized data acquisition, general biology for non-majors, and an occasional upper-level course for biology majors. Interdisciplinary teaching and research are encouraged. This is an excellent opportunity to teach and do research in a new state-of-the-art facility with a talented and supportive group of colleagues. Applications will be reviewed beginning January 24, 2000, and will continue until the position is filled. Send letter of application, résumé, statements of teaching philosophy and research goals, copies of transcripts, and three letters of support to: **Dr. Rosalind Reichard, Dean of Sciences and Mathematics, 2163 Campus Box, Elon College, NC 27244**. *Elon College seeks to increase diversity among its faculty/staff. Minority applicants are strongly encouraged to apply. Elon College is an Equal Employment Opportunity Employer.*

**ASSISTANT PROFESSOR DEPARTMENT OF CHEMISTRY THE UNIVERSITY OF TEXAS AT EL PASO**

Analytical Chemistry has a tenure-track opening in analytical chemistry at the Assistant Professor level. All research areas of analytical chemistry focusing on environmental or materials chemistry will be considered. The candidate will be expected to teach and contribute in UTEP's Ph.D. programs in environmental science and engineering and/or materials science and engineering. Candidates must have a strong commitment to teaching and research at both the undergraduate and graduate level and a potential for obtaining extramural funding. Applicants must have a Ph.D. in analytical chemistry. Candidates should send a résumé, statement of research interests, teaching philosophy, and three letters of reference (under separate cover) to: **Analytical Chemist Search Committee, UTEP, Department of Chemistry, El Paso, TX 79968-0513**. More information on our Chemistry Department can be located at [website: http://www.chemistry.utep.edu](http://www.chemistry.utep.edu). *The University of Texas at El Paso does not discriminate on the basis of race, color, national origin, sex, religion, age, disability, or sexual orientation in employment or the provision of services.*

The Department of Biochemistry invites applications and nominations for a tenure-track position at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level. The applicant should have a vigorous interest in the general area of transcription and/or DNA repair in relation to cancer biology. The current strengths of the department are in protein chemistry, protein/nucleic acid interactions, cell biology, and regulation of gene expression. Multidisciplinary interactions are encouraged within the Case Western Reserve University NCI-Designated Comprehensive Cancer Center. This position will be supported in part by an institutional grant by the Howard Hughes Medical Institute. Applicants should send curriculum vitae and statement of research plans and have three reference letters sent to: **Dr. Edward Stavnezer, Search Committee, Department of Biochemistry, School of Medicine, Case Western Reserve University, Cleveland, OH 44106-4935**. *CWRU is an Equal Opportunity/Affirmative Action Employer and encourages the applications of qualified women and minorities.*

**ENVIRONMENTAL SCIENTIST ANIMAL ECOLOGY/AIR POLLUTION**

**ASSISTANT PROFESSOR** (tenure track) with Ph.D. to teach undergraduate environmental science, air pollution, and courses in specialty. See our [website: http://www.unca.edu/envr\\_studies](http://www.unca.edu/envr_studies) for complete details on position and application procedures. *University of North Carolina (UNCA) is an Affirmative Action/Equal Opportunity Employer and as such encourages women, minorities, and people with disabilities to apply.*



## MAYO CLINIC POSTDOCTORAL POSITION

Position available for a postdoctoral fellow to study regulators of the mitotic phase of the cell cycle and their role in the development of cancer. A combination of biochemical and genetic approaches to investigate the molecular mechanism of cell-cycle control are used. Individuals with Ph.D. in biological or biomedical sciences and a strong background in biochemistry or molecular biology are encouraged to apply. Salary will be determined by the successful candidate's experience. There is also an attractive benefit package. Mayo Foundation 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:

**Jan van Deursen, Ph.D.**  
Mayo Clinic

Pediatric and Adolescent Medicine  
Guggenheim 10, 200 First St. SW  
Rochester, MN 55905  
email: [vandeursen.jan@mayo.edu](mailto:vandeursen.jan@mayo.edu)

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

## LIJ Medical Center

From community based programs to large tertiary teaching hospitals, we're a system of unparalleled quality, resources and innovation. Be #1 with us in the following opportunity.



### Post Doctoral - Research Position

Post Doctoral position available to investigate mechanisms of oxidative stress induced injury and signaling. Experience in animal work, cell culture, biochemistry, and molecular biology essential. Experience with HPLC desirable. Send CV and names of three references to: Dr. H. Steinberg, Division of Pulmonary/Critical Care Medicine, Rm C-20, LIJ Medical Center, 270-05 76th Ave, New Hyde Park, NY 11040. Fax: 718-470-1035, e-mail: [steinberg@lij.edu](mailto:steinberg@lij.edu). Long Island Jewish is the Long Island Campus for Albert Einstein College of Medicine.



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Equal opportunity employer M/F/D/V



Pharmaceuticals

## Polymer Scientist

### Who we are

Our global Pharmaceutical Research and Development organisation is responsible for the development of dosage forms for new active ingredients. Further tasks include research on novel drug delivery methods and the evaluation of new formulation technologies.

### The position

As head of a laboratory in our Formulation Research section, based in Basel, Switzerland, you will optimize lipid-water systems with respect to chemical and physical stability. Using oil-soluble, water-soluble or surface active polymers, you will develop suitable formulation concepts for further product development.

### Who you are

You hold a PhD in the field of polymer chemistry. Post-doctoral of industrial experience in the above fields is essential. A knowledge of German is desirable, but not essential.

### Who to contact

If your background and experience fit the above profile, and you are interested in this position, please send your application with full supporting documentation to:  
F. Hoffmann-La Roche Ltd, Mr Ralph Gysin,  
PSPB-1, 52/210, P.O. Box, CH-4070 Basel,  
quoting reference: Gr2590.

**POSITIONS OPEN**

**FACULTY POSITIONS  
NEUROBIOLOGY IN  
BIOMEDICAL ENGINEERING  
University of Rochester**

Applications are invited for tenure-track **ASSISTANT/ASSOCIATE PROFESSOR** positions within an extensive multidisciplinary neuroscience and biomedical engineering (BME) community. Applicants should have a Ph.D. and/or M.D. with training in both engineering and neuroscience and should have established an independent research program. Particular areas of research interest include sensory and motor systems, adaptive plasticity, and neural tissue engineering. Successful candidates will form a productive, independent, and externally supported research laboratory and will also lead the establishment of a multidisciplinary focus on neuroscience within the BME program. Participation in teaching activities in both the BME and neuroscience programs is expected. Competitive start-up packages are included. Salary is commensurate with rank and experience. Appointments may begin July 2000. Applications, including a curriculum vitae, statement of career goals, at least three letters of recommendation, and several publications, should be sent to: **Gary D. Paige, M.D., Ph.D., Chair, Department of Neurobiology and Anatomy, University of Rochester, 601 Elmwood Avenue, Box 603, Rochester, NY 14642.** *The University of Rochester is an Equal Opportunity/Affirmative Action Employer.*

**ASSISTANT PROFESSOR POSITIONS  
ZOOPLANKTON ECOLOGY AND  
GEOLOGICAL OCEANOGRAPHY**

Applications are invited for two tenure-track faculty positions in the School of Marine Science, Virginia Institute of Marine Science (VIMS), College of William and Mary. Review of applications will begin February 15, 2000, and positions will be filled between July 2000 and January 2001. The Zooplankton Ecologist should preferably demonstrate research and teaching interests focused towards processes operating in estuarine or coastal ocean environments; a research program that combines laboratory, field, and modeling approaches; and the ability to interact with interdisciplinary research groups in estuarine ecology, water column processes, and fisheries. The Geological Oceanographer should have research and teaching interests focused towards quantitative understanding of processes operating in estuaries and/or the coastal ocean. Areas of specialization include but are not limited to: benthic boundary layer observations and/or modeling, geophysical data collection and post-processing, stratigraphic modeling, and coastal processes. Further details and application instructions can be accessed at **website: <http://www.vims.edu/jobs>.** *The College is an Equal Employment Opportunity/Affirmative Action Employer.*

**FACULTY POSITION IN BIOCHEMISTRY  
AND MOLECULAR BIOLOGY**

The Department of Biochemistry and Molecular Biology is inviting applications for a tenure-track position at the **ASSISTANT PROFESSOR** level. Strong candidates at the **ASSOCIATE** and **FULL PROFESSOR** levels will also be considered. Outstanding candidates in all aspects of biochemistry and molecular biology are welcome, although preference will be given to applicants using theoretical or experimental approaches for the determination of protein structure and dynamics, including such areas as protein interactions and protein folding. Send a curriculum vitae, statement of research interests, and the names and addresses of at least three references to:

**Search Committee Chair  
Department of Biochemistry and  
Molecular Biology**

**Wayne State University School of Medicine  
540 East Canfield, Detroit, MI 48201  
Website: <http://boatman.med.wayne.edu/biochem/position.html>**

*Wayne State University is an Equal Opportunity/Affirmative Action Employer.*

**POSITIONS OPEN**

**MAYO CLINIC RESEARCH FELLOWS.** Postdoctoral research positions are available immediately in the Transplantation Biology Program at the Mayo Clinic in Rochester, Minnesota, to study the generation and regulation of immune responses to transplantation. The successful candidates will join a large multidisciplinary group of basic scientists whose work will focus on identifying the molecular mechanisms underlying transplant rejection and maintenance of immunological tolerance. Discoveries governing the regulation of immune responses may be applied to future clinical approaches to prevent transplant rejection, autoimmune disease, and immune reconstitution. Candidates must have a Ph.D. and/or M.D. Research experience in immunology, molecular biology, or cellular physiology would be helpful. Send curriculum vitae, bibliography, a description of research interests, and the names of three references to: **Laurie A. Dempsey, Ph.D., Mayo Clinic, Department of Surgery/Transplantation Biology, 200 First Avenue S.W., 2-66 Medical Sciences Building, Rochester, MN 55905.** *Mayo Foundation is an Affirmative Action/Equal Opportunity Employer and Educator.*

Opportunity exists for a **TENURE-TRACK INVESTIGATOR** in the field of hematology/oncology. Candidates should have an M.D. or M.D./Ph.D. with at least three years of postdoctoral experience and an exceptional publication record in peer-reviewed journals. The successful candidate will develop a translational research program in the Laboratory of Clinical Investigation, Section of Hematology/Oncology, and will participate in relevant clinical trials of novel cancer treatments. The individual should have demonstrated capability for independent laboratory investigations as evidenced by peer-reviewed funding, publication, and other equivalent achievements. Candidates should send a cover letter, curriculum vitae, statement of research interest, bibliography, and three letters of reference to: **Chair, Search Committee for Tenure-Track Position, LCI/HOS, C/O Terri Stachowiak, Personnel, Room 1-D09 (#99-45), NIA, Gerontology Research Center, 5600 Nathan Shock Drive, Baltimore, MD 21224-6825.** Applications must be received by January 7, 2000. *NIH is an Equal Opportunity Employer.*

**MARINE SCIENCE  
POLICY COORDINATOR  
MONTEREY BAY AQUARIUM**

The Monterey Bay Aquarium is seeking to fill the position of Marine Science Policy Coordinator. This is a two-year-term position to oversee the day-to-day activities of our new program to advance and communicate marine conservation science. The successful candidate will work with Aquarium staff and external partners to organize and convene meetings, workshops, and other activities focused on critical marine conservation issues. Qualifications include Ph.D. or equivalent experience in marine biology, marine conservation, marine environmental policy, or other related field; thorough knowledge of marine conservation science and policy, including experience outside academe; and strong interpersonal and communication skills. Application deadline is January 15, 2000. Contact: **Human Resources, Monterey Bay Aquarium, 886 Cannery Row, Monterey, CA 93940.**

**UNIVERSITY OF FLORIDA**

Seeks an **ASSISTANT** in position for the Department of Medicine, Division of Nephrology. Master's degree with skills in protein biochemistry, molecular biology, tissue culture, and cell expression studies with more than five years of experience. This position will be involved in service activities that contribute to the missions of the Nephrology Division, the Department of Medicine, and the College of Medicine. Salary and benefits commensurate with experience. Recruiting deadline January 7, 2000. Anticipated starting date January 28, 2000. Please respond with curriculum vitae to: **Dr. David Weiner, M.D., Associate Professor, Division of Nephrology, Box 100224 JHMHC, Gainesville, FL 32610.** *An Equal Opportunity/Affirmative Action Employer.*

**POSITIONS OPEN**

**RESEARCH INSTRUCTOR IN  
COMPUTATIONAL GENETICS**

The Department of Psychiatry of the University of Pittsburgh School of Medicine/Western Psychiatric Institute and Clinic seeks a broadly trained Ph.D. Statistician who has a strong background in both theoretical and applied statistics. The candidate must complement an existing team in the Computational Genetics Program and is expected to develop an independent research program in statistical genetics. Research interests in the application of classification and clustering theory and statistical simulations to psychiatric genetics are preferred. Experience in genetic epidemiology and genome informatics is essential. This position will carry an academic faculty appointment in the Department of Psychiatry, outside the tenure track, at the rank of Research Instructor or **RESEARCH ASSISTANT PROFESSOR**, commensurate with qualifications and experience. The University of Pittsburgh offers competitive starting salary and an excellent benefit package. Interested candidates should send a letter of inquiry and curriculum vitae to: **David J. Kupfer, M.D., Professor and Chair, WPIC, 3811 O'Hara Street, Pittsburgh, PA 15213.** *The University of Pittsburgh, as an educational institution and as an employer, does not discriminate on the basis of race, color, religion, ethnicity, national origin, age, sex, marital, veteran, or handicapped status. This commitment is made by the University and is in accordance with federal, state, and local laws and regulations.*

**WETLANDS SCIENTIST:** tenure-track **ASSISTANT PROFESSORSHIP** starting September 2000. Ph.D. and teaching experience required. Postdoctoral experience preferred. Individual will teach courses, conduct research, and mentor undergraduate and Master's research. Teaching may include introductory and core courses in environmental science, including laboratory classes, and a course in the applicant's specialization. Research experience required in one or more of the following areas as applied to wetlands: biogeochemistry, plant or macroinvertebrate ecology, GIS, bioremediation, restoration, or management. To ensure full consideration, application materials must be received by February 15, 2000. Send a curriculum vitae, interest statement, recent publications, list of references, and evidence of teaching effectiveness to: **Chair, Wetlands Scientist Search Committee, Huxley College of Environmental Studies, Western Washington University, Bellingham, WA 98225-9181. FAX: 360-650-7284.** Additional information available at **website: <http://www.ac.wvu.edu/~huxley>; Telephone: 360-650-2844.** For disability accommodation **Telephone: 360-650-3306 (V); 360-650-7606 (TTY).** *Affirmative Action/Equal Opportunity.*

**FACULTY POSITION:** Kean University biotechnology Master's program; **ASSISTANT PROFESSOR**, tenure track, Ph.D.; specializing in molecular biology. Effective September 1, 2000. Primary teaching responsibilities include graduate courses in molecular biology, advanced recombinant DNA techniques, and cell physiology. Other instruction may include undergraduate courses according to qualifications. Commitment to excellence in teaching is required. Research is encouraged, and modest facilities and support are available. Application review begins immediately and continues until appointment is made. Applications should be sent to: **Dr. Denise Mancarella, Chairperson, Department of Biological Sciences, Kean University, 1000 Morris Avenue, Union, NJ 07083.** *Kean University is an Affirmative Action/Equal Opportunity Employer.*

**POSTDOCTORAL POSITIONS** are available immediately to study signaling pathways in lymphocytes. A Ph.D. or M.D. degree with a strong background in molecular biology and biochemistry is required. Send curriculum vitae and names of three references to: **Dr. Alessandra Pernis, Department of Medicine, Columbia University, 630 West 168th Street, New York, NY 10032. FAX: 212-305-4478; e-mail: [abpl@columbia.edu](mailto:abpl@columbia.edu).**



**COLUMBIA UNIVERSITY**  
**EARTH INSTITUTE**

**POSTDOCTORAL PROGRAM**

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

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

One of the Earth Institute fellowships granted each year is a three-year, Mellon-sponsored position with Barnard College. It is designed especially for a candidate who is interested in building a foundation in teaching as well as in research. The incumbent will spend the first fellowship year establishing a research program alongside the other Earth Institute fellows; in the second and third years, research will be continued and a teaching program will be built in the undergraduate Environmental Sciences program at Barnard College.

Candidates should submit a proposal for multidisciplinary research and an appropriate work plan. The proposal should suggest a composition for a small multidisciplinary mentoring team (candidates for the Barnard position should include a Barnard mentor). Candidates for the Barnard teaching position must propose to work in an area that complements the Barnard faculty, include a description of their teaching goals, and commit to completing the three-year term. Proposals will be evaluated by the Earth Institute Academic Committee on the basis of the strength of the research plan and its relevance to the Earth Institute's goals (see [www.earthinstitute.columbia.edu](http://www.earthinstitute.columbia.edu)).

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

Applications submitted by February 15, 2000, will be considered for fellowships starting in the summer or fall of 2000, and fellowship offers will be made around March 15, 2000.

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

Roche

## *Biophysicist, Physical Chemist*

### **Who we are**

Our global Pharmaceutical Research and Development organisation is responsible for the development of dosage forms for new active ingredients. Further tasks include research on novel drug delivery methods and the evaluation of new formulation technologies.

### **The position**

As head of a laboratory within our Formulation Research section, based in Basel, Switzerland, you will carry out experimental studies including the characterization of lipid-water interfaces. In addition, you will investigate chemical, physical and biochemical reactions at these interfaces, such as adsorption, molecular exchange and enzymatic processes.

### **Who you are**

You hold a PhD in biophysics, physical chemistry or a related discipline and have industrial or post-doctoral experience in the field of colloidal systems and/or biological membranes. You are interested in innovative approaches and interdisciplinary teamwork and have good communication skills. A knowledge of German is desirable, but not essential.

### **Who to contact**

If your background and experience fit the above profile, and you are interested in this position, please send your application with full supporting documentation to:  
F. Hoffmann-La Roche Ltd, Mr Ralph Gysin, PSPB-1, 52/210, P.O. Box, CH-4070 Basel, quoting reference: Gr2604.

Pharmaceuticals

## SENIOR FACULTY POSITION

The Morehouse School of Medicine Neuroscience Institute (MSMNI) invites applications from Senior Scientists with research interests in understanding, preventing, and/or treating neurodegenerative disorders. Preference will be shown to candidates with current research funding (RO1 or equivalent) and with programs that target basic and clinical aspects of stroke research. The MSMNI is a newly established institute with strong programmatic support from the National Institutes of Health and scientific oversight from nationally and internationally recognized neuroscientists. Current research programs are in the areas of circadian rhythm, neuronal regeneration, receptor signaling, and electrical excitability and integration.

Send curriculum vitae, statement of research plan, and the names and contact telephone numbers of five references to:

**Peter R. MacLeish, Ph.D., Director**  
Morehouse School of Medicine  
Neuroscience Institute  
720 Westview Drive, S.W.  
Atlanta, GA 30310-1495  
E-mail: [Macleip@msm.edu](mailto:Macleip@msm.edu)

Deadline for submission: January 31, 2000. *Morehouse School of Medicine is an Equal Opportunity Employer.*

The Department of Pharmacology at Pikeville College School of Osteopathic Medicine (PCSOM) ([website: pcsom.pc.edu](http://www.pcsom.pc.edu)) invites applications for a full-time faculty position. Candidates at the ASSISTANT PROFESSOR level are preferred. Applicants should have a Ph.D. in pharmacology or a closely related discipline. Candidates with teaching experience or background in neuropharmacology, endocrine pharmacology, or antimicrobials are highly desired. The successful applicant is expected to contribute in other areas of scholarly activity including research. Review of applications will begin after February 1, 2000. Applicants should submit curriculum vitae with a complete list of publications, a summary of previous teaching experience, and three letters of reference to:

**Steven R. Harris, Ph.D.**  
Chair, Pharmacology Search Committee  
Pikeville College School of Osteopathic Medicine  
214 Sycamore Street  
Pikeville, KY 41501

The National Institute on Aging invites applications for a **TENURE-TRACK POSITION**. We are interested in outstanding physician scientists with leadership skills to develop and implement a translational research program in osteoarthritis/bone metabolism in the Laboratory of Clinical Investigation. Candidates should have an M.D. or M.D./Ph.D. and appropriate postgraduate clinical and research training. The successful candidate will develop a clinical research program in the Laboratory of Clinical Investigation, Section of Molecular and Clinical Pharmacology. Candidates should send cover letter, curriculum vitae, statement of research interest, bibliography, and three letters of reference to: **Chair, Search Committee for Tenure-Track Position, LCI/MCPS, C/O Teri Stachowiak, Personnel, Room 1-D09 (#99-44), NIA, Gerontology Research Center, 5600 Nathan Shock Drive, Baltimore, MD 21224-6825**. Applications must be received by January 7, 2000. *NIH is an Equal Opportunity Employer.*

## POSTDOCTORAL POSITION

Position available to investigate modulation of autoreactive T cells at the cellular and molecular level (see *Min et al., J. Exp. Med.* 188:2007, 1998; and *Legge et al., J. Exp. Med.* 185:1043, 1997). Experience with gene cloning and construction of gene library required. Correspondence to: **H. Zaghuan, The University of Tennessee, Knoxville, Department of Microbiology, M409 Walters Life Sciences Building, Knoxville, TN 37996**. E-mail: [hzagh@utk.edu](mailto:hzagh@utk.edu). *UTK is an Equal Employment Opportunity/Affirmative Action/Title VI/Title IX/Section 504/Americans with Disabilities Act/Age Discrimination in Employment Act Employer.*

# JPL

**DEPUTY PROGRAM MANAGER  
JET PROPULSION LABORATORY**  
Center for Space Microelectronics Technology  
(CSMT)

Management and program development in micro/nanodevice and system technologies. Requires an M.S. degree (Ph.D. preferred) in a related discipline, with more than 10 years of management experience in a technology-rich environment. The Jet Propulsion Laboratory (JPL), an operating division of the California Institute of Technology located in Pasadena, is a leading research and development center for NASA. Our wide-ranging charter is for solar system exploration, Earth observations, astrophysical research, and technology development. Please send résumé and salary history to: **Jet Propulsion Laboratory, California Institute of Technology, Attention: Staffing, Department SM1217, 4800 Oak Grove Drive, MS 249/104, Pasadena, CA 91109**. E-mail: [jobs@jpl.nasa.gov](mailto:jobs@jpl.nasa.gov) (ASCII text only; no attachments). *Equal Opportunity Employer.*

**DIRECTOR OF THE DIGITAL  
TECHNOLOGY CENTER/ASSISTANT  
VICE PRESIDENT FOR RESEARCH**  
University of Minnesota  
Twin Cities Campus

The Vice President for Research is seeking to fill the position of Director of the Digital Technology Center, a center for advanced digital analysis and networking. The position will also carry the title of Assistant Vice President for Research.

The University of Minnesota has recently created a Digital Technology Center. The State of Minnesota has appropriated \$54 million for the historical restoration and renovation of the Walter Library building within which the Digital Technology Center and the Science and Technology Library will be housed. The State of Minnesota has also provided recurring funding to add 12 established scholars in research areas of emphasis of the Center. In addition, the Institute of Technology is committed to redirecting six entry-level faculty positions to programs of the Center.

The Center has three main objectives: (1) creation, promotion, and coordination of cooperative interdisciplinary groups from various colleges and programs; (2) production of new ideas to enable departments to produce outstanding graduates for high-technology industry; (3) action as a focal point in communication between the University, other educational institutions, and government and industry.

Candidates for the Director's position must have an earned Doctorate in engineering, a physical science, or mathematics. They must have a demonstrated record of accomplishment in one or more of the following: high-performance computing, visualization, or graphics; telecommunications; multimedia; digital commerce; computer-aided design and advanced manufacturing; internet technologies; computer architecture and systems. Depending on qualifications, it is possible for the successful candidate to be a tenured **FULL PROFESSOR** in one of the academic departments of the Institute of Technology.

For more information, please see our [website: www.it.umn.edu/walter/director.html](http://www.it.umn.edu/walter/director.html). Letters of nomination and/or application with a résumé of academic and administrative experience should be sent to: **Connie Galt, Search Committee for Director of the Digital Technology Center, Information Technology Dean's Office, 1701 University Avenue S.E., Minneapolis, MN 55414**. Review of completed applications will begin immediately, but the search will remain open until the position is filled. *The University of Minnesota is an Equal Opportunity Educator and Employer.*

## ORNITHOLOGIST/WILDLIFE BIOLOGIST

Tenure-track **ASSISTANT PROFESSOR**. Ph.D. in biology, zoology, or a related discipline in biology completed by August 21, 2000. Advanced training in ornithology and wildlife biology and research experience in either field required. Evidence of a strong commitment to college teaching required. Preference given to applicants with broad training in biology, professional experience in wildlife biology, and experience in environmental impact assessment. Prior teaching at the college level and experience working with diverse groups desirable. Duties: (1) teaching upper-division and graduate courses in ornithology and wildlife biology and possibly conservation biology and ecology, (2) teaching introductory courses in general biology, (3) engaging in scholarly activities, (4) supervising undergraduate and Master's student research, (5) participating in undergraduate and graduate course development, (6) academic advising, (7) serving on Department and University committees, and (8) engaging in community service. Duties may also include participation in Department and University programs designed to recruit and retain students in science. Submit curriculum vitae, all transcripts, names and telephone numbers of three references, statements of teaching and scholarly interests, and arrange to have three letters of recommendation sent to: **Laurel Heffernan, Chair, Biological Sciences, California State University, Sacramento, CA 95819-6077**. [Website: http://www.csus.edu/bios/bios](http://www.csus.edu/bios/bios). Applications must be postmarked by February 11, 2000. *Affirmative Action/Equal Employment Opportunity.*

## POSTDOCTORAL RESEARCH ASSOCIATE

Two positions available to study the regulation of inflammatory activation in neural cells. One project will study the effects of local anesthetics on mitochondrial function, apoptosis, and induction of inflammatory gene expression using primary glial cultures. The second will focus on regulation of inflammatory events at the blood brain barrier, including studies of adhesion molecule and nitric oxide synthase expression, using primary glial and endothelial cells and demyelinating disease models *in vivo*. The ideal candidate should have a basic understanding of inflammatory signaling processes in brain; and expertise in RNA (RT-PCR, *in situ*); protein (immunocytochemistry and immunohistochemistry); and gene promoter (transfections, EMSA) analysis. Send résumé and names of references to: **Dr. Elena Galea, Department of Anesthesiology, University of Illinois in Chicago, 1819 West Polk Street, MC519, Chicago, IL 60612**. FAX: 815-333-0449; e-mail: [galea@uic.edu](mailto:galea@uic.edu). *Affirmative Action/Equal Opportunity Employer.*

Three **POSTDOCTORAL POSITIONS** are immediately available to study the mechanics of leukocyte adhesion molecules. Under an NIH-funded Bioengineering Research Partnership, successful applicants will study the biomechanics of selectins at the tissue, cell, or molecular levels, using state-of-the-art technology. To apply, send a statement of research interests, a current curriculum vitae, and the names and addresses of three references to: **Dr. Klaus Ley, Biomedical Engineering, University of Virginia, HSC Box 377, Charlottesville, VA 22908**. E-mail: [klausley@virginia.edu](mailto:klausley@virginia.edu); see [website: http://yakko.bme.virginia.edu/adhesion](http://yakko.bme.virginia.edu/adhesion) for more information. *The University of Virginia is an Equal Opportunity/Affirmative Action Employer.*

A **POSTDOCTORAL POSITION** is immediately available to study the biomechanics of molecular motors. Under an NIH-funded project, successful applicants will use state-of-the-art technology, including laser traps, to study the mechanical performance of individual myosin molecules within myosin filaments. To apply, send a statement of research interests, a current curriculum vitae, and the names and addresses of three references to: **Dr. William Guilford, Biomedical Engineering, University of Virginia, HSC Box 377, Charlottesville, VA 22908**. E-mail: [guilford@virginia.edu](mailto:guilford@virginia.edu); see [website: http://yakko.bme.virginia.edu/lab](http://yakko.bme.virginia.edu/lab) for more information. *The University of Virginia is an Equal Opportunity/Affirmative Action Employer.*

The Netherlands Cancer Institute in Amsterdam

# Career opportunities in cancer research...

The Netherlands Cancer Institute/Antoni van Leeuwenhoek Hospital (NKI/AvL) is an integrated cancer institute, combining a research laboratory and hospital under one roof in a single, independent organization. The laboratory covers all major areas of basic molecular biology and clinical research, with special emphasis on mouse tumor models, mouse (reverse) genetics, cancer cell biology and translational research requiring close collaboration between clinical and basic scientists. The NKI/AvL research program is subdivided among thirteen divisions: Cell Biology, Molecular Carcinogenesis, Cellular Biochemistry, Immunology, Molecular Biology, Tumor Biology, Molecular Genetics, Experimental Therapy, Medical Oncology, Surgical Oncology, Diagnostic Oncology, Radiotherapy (development of image processing to improve diagnostic precision as well as accuracy of treatment delivery and dosimetry of high-dose precision radiotherapy) and Psychosocial Research and Epidemiology.

**...for talented graduate-students, post-docs  
and technicians, visit us at [www.nki.nl](http://www.nki.nl)**

A new round of external project support has now opened positions for graduate-students, post-docs and technicians in most research divisions. Those interested are invited to visit the home page of the NKI/AvL research divisions where a detailed description of the ongoing research of each division can be found, as well as a description of the available positions (<http://www.nki.nl>).

**Inspiring international atmosphere** Approximately 400 people work in the research laboratory. Research discussions, lectures and seminars in English and a large number of non-Dutch post-docs, students and staff members contribute to the stimulating and international atmosphere of the Institute. The research divisions within the NKI/AvL are supported by state of the art equipment, usually with dedicated support staff. The institute has a large animal facility with a special unit for the generation of transgenic mice, an animal histology and pathology department, a digital microscopy (including CLSM) and electron microscopy facility, a flow cytometry (FACS), a sequencing and a microarray facility. Furthermore, the research activities are supported by a central computer and network facility, a central cryogenic storage facility, a glassware kitchen, a (electro-) technical workshop, a large (cancer) library, and an audiovisual department.

**Inviting conditions** We offer a stimulating and interactive research environment, state of the art facilities, a competitive salary (including possibilities for additional tax-reduction) and housing facilities in the vicinity of the Institute. Graduate-students take part in the Oncology Graduate School Amsterdam. Researchers at the NKI/AvL have no teaching obligations.

**For further information and addresses** Visit our home page (<http://www.nki.nl>) or contact the Director of Research, Prof. Anton Berns, Plesmanlaan 121, 1066 CX Amsterdam, The Netherlands.



THE NETHERLANDS CANCER INSTITUTE / ANTONI VAN LEEUWENHOEK HOSPITAL



### POSTDOCTORAL FELLOW IMMUNOLOGY

A POSTDOCTORAL POSITION is available now to study the role of altered CD40-ligand gene transcription in systemic lupus erythematosus. Candidates must have a Ph.D. or M.D. Salary is competitive and commensurate with experience. We seek a creative, independent, and highly motivated individual to spend at least two to three years in the laboratory. Send curriculum vitae and names, addresses, and telephone numbers of three references to: **Randy Q. Cron, M.D., Ph.D., Children's Hospital University of Pennsylvania, 3516 Civic Center Boulevard, ARC 902C, Philadelphia, PA 19104-4318; e-mail: cron@email.chop.edu. Equal Opportunity/Affirmative Action Employer.**

### RESEARCH SCIENTIST U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL RESEARCH SERVICE Biological Research Laboratory Fargo, North Dakota

The USDA, Agricultural Research Service, Fargo, North Dakota, is seeking a POSTDOCTORAL RESEARCH SCIENTIST in synthetic organic chemistry to synthesize radiolabeled ( $^{14}\text{C}$  or  $^3\text{H}$ ) agricultural or environmental chemicals for use in metabolism studies or for structural identification of metabolites. The successful candidate will be expected to develop synthetic pathways or to adapt existing pathways to successfully incorporate the radioactive nuclides ( $^{14}\text{C}$  or  $^3\text{H}$ ) into target molecules. Applicants must meet minimum education requirements as described in the vacancy announcement, which can be assessed at website: <http://www.ars.usda.gov/afm/hrd/hrdhomepage/vacancy/pd962.html>. Candidates with at least one year of research experience at the Doctoral level in synthetic organic chemistry and instrumentation (i.e., mass spectrometry, NMR, GLC, and HPLC) will receive the strongest consideration. Salary is commensurate with qualifications and experience. For information on application procedures, call: **Ms. Melanie Nyquist, Administrative Officer, Telephone: 701-239-1203.** For information on research project, call: **Dr. Gerald L. Larsen, Research Leader, Animal Metabolism-Agricultural Chemicals Research Unit, Telephone: 701-239-1231.** The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital and family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact: **USDA's TARGET Center at Telephone: 202-720-2600 (voice or TDD).** To file a complaint of discrimination, write: **USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, S.W., Washington, DC 20250-9410; Telephone: 202-720-5964 (voice or TDD).** USDA is an Equal Opportunity Provider and Employer.

The Biology Department at the University of St. Thomas invites applications for the position of Plant Biologist with earned Ph.D. and background in molecular biology and either plant physiology or development. Teaching responsibilities include general biology, lecture and laboratory, and upper-division course in area of expertise. Commitment to directing undergraduate research essential. Appointment is nine month and tenure track at the ASSISTANT PROFESSOR rank to begin fall 2000. Applicants should submit curriculum vitae, statement of teaching philosophy, and arrange for five letters of reference to be sent to: **Dr. Ruth Ann Bagnall, Chair, Department of Biology, University of St. Thomas, 3800 Montrose Boulevard, Houston, TX 77006.** Review of applications will begin 24 January and continue until the position is filled.

### CANCER GENOMICS RESEARCH ASSOCIATE NATIONAL CANCER INSTITUTE

A RESEARCH ASSOCIATE POSITION is available immediately in the Staudt Laboratory of the National Cancer Institute to use genomic-scale cDNA microarray analysis of gene expression to define clinically important molecular profiles of human lymphomas and leukemias. We have recently developed the "Lymphochip" cDNA microarray, which consists of 18,000 cDNAs chosen for their relevance to lymphocyte function. Using the Lymphochip, we have shown that gene expression profiles of human lymphomas can reveal previously unrecognized lymphoma subtypes that have strikingly different clinical courses. The National Cancer Institute has recently established a Lymphoma/Leukemia Molecular Profiling Project that is coordinating an international consortium of cancer centers to extend these findings to all human lymphoid malignancies. This position provides an opportunity to participate in all aspects of this exciting new effort, from creating and using cDNA microarrays to applying bioinformatics approaches to mine gene expression data. A strong background in molecular biology is essential as is an interest in genomics. Candidates must have exceptional organizational and computer skills, a strong track record in research, and be willing and able to join a vigorous team effort to expand our understanding of human lymphoid malignancies. This appointment is at the GS-12 level with a salary of \$48,796 plus benefits. Send curriculum vitae and names and contact information (telephone and e-mail) for three references to: **Louis M. Staudt, M.D., Ph.D., Metabolism Branch, NCI, Building 10, Room 4N114, National Institutes of Health, Bethesda, MD 20892-1374. NIH is an Equal Opportunity Employer.**

### HYDROLOGIST (GS-13) U.S. FISH AND WILDLIFE SERVICE

A hydrologist is sought for an interdisciplinary team evaluating South Florida ecosystem restoration efforts. Incumbent will: evaluate impacts to the Everglades from hydrological changes, analyze hydrological data, prepare documents for judicial and administrative proceedings, and represent the Service on technical and policy matters associated with protecting Everglades water resources. Location: **Loxahatchee National Wildlife Refuge, Boynton Beach, Florida.** Requires: engineering, physical, or natural sciences degree (Ph.D. preferred); one year of experience equivalent to GS-12 level; and U.S. citizenship. Salary: \$56,951 to \$74,035. Closes January 31, 2000. Send a curriculum vitae (listing three references) to: **Mark Musaus, Loxahatchee National Wildlife Refuge, 10216 Lee Road, Boynton Beach, FL 33437. Telephone: 561-732-3684; FAX: 561-369-7190; e-mail: Mark\_Musaus@fws.gov.**

### POSTDOCTORAL POSITION MOLECULAR GENETICS

We recently helped clone the *MEN1* gene, a novel tumor suppressor that has important roles in human tumors. It encodes a nuclear protein that inhibits junD-mediated transcription. We are studying its roles in normal and abnormal cells. Projects include protein-protein interactions, expression in mammalian and nonmammalian systems, and interactions with DNA and reporters. Many novel approaches are possible. Applicants should have a Doctoral degree and an excellent background in one or more relevant topics. Applicants should not be more than five years beyond the most recent Doctoral degree. Send applications with contact information for three references to: **Stephen Marx, M.D., Building 10, Room 9C-101, NIH, Bethesda, MD 20892. E-mail: StephenM@INTRA.NIDDK.NIH.GOV; FAX 301-496-0200. NIH is an Equal Employment Opportunity Employer.**



**GeoMed**  
GLOBAL COMMUNICATIONS

**SCIENTIFIC EDITORS.** Leading international medical education company has openings for communications professionals to participate in the development of global programs. Responsibilities will include the preparation and evaluation of a wide variety of copy, ranging from clinical manuscripts to promotional presentations. Strong writing/editing skills, a sound understanding of the biological sciences, and the ability to interact with clients and expert physicians are essential. Related experience and a postgraduate degree are highly desirable. Please send résumé to: **Personnel/Administration, GeoMed Global Communication, 700 Plaza Drive, Secaucus, NJ 07094. FAX: 201-583-1358; e-mail: kchambers@geomcdglobal.com.**

### ATPASE POSTDOCTORAL POSITIONS AVAILABLE IMMEDIATELY

Two Postdoctoral positions are available immediately (1) to study the proton-translocating ATPase of *E. coli*, including energy-coupling, transmembrane proton movement and generic control of ATPase synthesis and assembly; and (2) to study a lead/cadmium/zinc translocating ATPase from *E. coli*, including enzyme mechanism, cation transport, metal binding, and structural analysis of individual domains. Salary range for either position is \$25,000 to \$30,000 depending on experience. For more information, contact: (1) **Dr. William Brusilo, 313-577-6659; e-mail: wbrusilo@med.wayne.edu** or (2) **Dr. Bharati Mitra, 313-577-0040; e-mail: bmitra@med.wayne.edu. Department of Biochemistry and Molecular Biology, Wayne State University School of Medicine, 540 East Canfield, Detroit, MI 48201. Wayne State University is an Equal Opportunity/Affirmative Action Employer.**

The Department of Biology at Sweet Briar College is seeking a two-year **SABBATICAL REPLACEMENT** beginning in fall 2000. Responsibilities include teaching genetics, advanced cell biology, introductory courses, and a lecture course in the area of specialty (preferably plant biology) and supervising undergraduate research. Ph.D. and evidence of strong commitment to undergraduate teaching and research required. For information about the Department, see website: [www.biology.sbc.edu](http://www.biology.sbc.edu). Submit curriculum vitae, statements of teaching philosophy and research interests, and arrange to have three letters of recommendation sent to: **Dr. Margaret Simpson, Chair, Department of Biology, Sweet Briar College, Sweet Briar, VA 24595.** Applications completed by February 11, 2000, will be given priority. *Equal Opportunity Employer.*

**POSTDOCTORAL POSITION** available immediately to study mechanisms of mycobacterial virulence genes in *M. marinum* and *M. tuberculosis* with an ultimate goal of constructing a live attenuated *M. marinum* and *M. tuberculosis* vaccine strain. The candidate should have a Doctoral degree and experience with microbiological/molecular biology techniques. Send curriculum vitae and the names of three references to: **Dr. Michele Trucksis, Center for Vaccine Development, University of Maryland School of Medicine, 685 West Baltimore Street, Baltimore, MD 21201.**

## POSITIONS OPEN

### POSTDOCTORAL FELLOWS IN MOLECULAR BIOLOGY

The Molecular Biology Program at the University of Colorado Health Sciences Center has openings for several Postdoctoral positions in the following areas of research:

**Dean P. Edwards, Ph.D.:** to study steroid receptor regulation of gene transcription, including novel receptor interacting coregulatory proteins, receptor cross-talk with other signal transduction pathways, and the role of the progesterone receptor in normal mammary gland development and breast cancer.

**Kathryn Howell, Ph.D.:** to study molecular mechanisms of membrane traffic, focusing on molecules involved in exit from the golgi apparatus in the constitutive secretory pathway. The project uses multidisciplinary approaches, including *in vivo* imaging, cell-free assays, molecular, and biochemical techniques.

**Gary L. Johnson, Ph.D.:** to study MAPK signal transduction pathways and their role in controlling growth, differentiation, and apoptosis. Experimental approaches include targeted gene disruptions of MAPK kinase kinases (MEKKs) and imaging techniques for the three-dimensional reconstruction of signaling complexes.

**Mair Churchill, Ph.D.:** to study chromosomal protein-DNA interactions, DNA modification enzymes, and proteins involved in bacterial pathogenesis using combined approaches of X-ray crystallography and functional analysis. Projects involve structural studies of novel macromolecular complexes, as well as mutant and inhibitor design.

**Judith Jaehning, Ph.D.:** to study the coordination of gene regulation between the nucleus and mitochondrion, in particular to analyze the properties of the yeast mitochondrial RNA polymerase that leads to regulated expression of mitochondrial genes in response to signals from the nucleus.

**Sandra Martin, Ph.D.:** to study the biochemical mechanism of LINE-retrotransposition, either by reconstituting the transposition reaction *in vitro* using components purified from heterologous systems or by fractionating mammalian cell extracts to purify active intermediates.

Successful candidates will have the opportunity to participate in an interdepartmental Molecular Biology Program offering a strong training environment in multiple disciplines. Competitive salaries commensurate with qualifications are offered. Candidates should send a curriculum vitae and a statement of research interests and potential mentor to: **Jean Sibley, Administrator, Molecular Biology Program, University of Colorado Health Sciences Center, Box B121, 4200 East Ninth Avenue, Denver, CO 80262. E-mail: Jean.Sibley@UCHSC.edu.**

### POSTDOCTORAL POSITION

A Postdoctoral position is available March 1, 2000, to investigate alkylation of a thermostable nitrile hydratase using mass spectrometry followed by directed mutagenesis of the nitrile hydratase genes to confer alkylation resistance. Research will be carried out in collaboration with the Michigan State University/NIH Mass Spectrometry facility. Protein biochemistry experience required, with protein mass spectrometry experience desirable. Send curriculum vitae and names of three references to: **P. Oriel, Department of Microbiology, Giltner Hall, Michigan State University, East Lansing, MI 48824. E-mail: oriel@pilot.msu.edu; FAX: Attention P. Oriel, 517-353-8957. Michigan State University is an Affirmative Action/Equal Opportunity Institution.**

### POSTDOCTORAL POSITION AVAILABLE IMMEDIATELY

Research is focused on the neurotoxicity of insecticides using a variety of behavioral and neurochemical endpoints related to Parkinson's disease and Gulf War Syndrome. Send curriculum vitae and names of three references to: **Dr. J. R. Bloomquist, Neurotoxicology Laboratory, Department of Entomology, Virginia Tech, Blacksburg, VA 24061. E-mail: jrbloomquist@vt.edu. Virginia Tech is an Equal Opportunity/Affirmative Action Employer.**

## POSITIONS OPEN

### MOLECULAR, CELLULAR, AND CHEMICAL TOXICOLOGISTS

Openings are available in the Environmental Chemistry and Toxicology Laboratory at the University of California at Berkeley for **POSTGRADUATE RESEARCH SCIENTIST** positions in the nontenure series to investigate the mechanism of action of pesticides, xenobiotics, and related biologically active compounds. Appointments are for one year with possible extension based on performance. The specifications for each position depend on the programmatic needs. The laboratory is currently soliciting applications in a relatively wide range of areas from which specific qualified candidates will be selected. Applicants must hold a Ph.D. or equivalent degree with emphasis on one or more of: toxicology; pharmacology; molecular biology; cell biology; chemical mechanisms (medicinal, pharmaceutical, or agricultural chemistry); protein isolation/sequencing; radioligand binding studies; and photoaffinity probes to investigate mechanisms of mammalian toxicity. Each appointment is made at a level commensurate with academic qualifications and experience. Send curriculum vitae, publication list, and names of three professional references to: **Dr. John E. Casida, Department of Environmental Science, Policy, and Management, 114 Wellman Hall, University of California, Berkeley, CA 94720-3112. Telephone: 510-642-5424; FAX: 510-642-6497. The University of California is an Equal Opportunity/Affirmative Action Employer.**

Southern Illinois University School of Medicine is seeking a **POSTDOCTORAL/RESEARCH INSTRUCTOR** to work under the direction of **Mark Francis, M.D., Chief, Division of Rheumatology.** This position will perform research investigations as well as assisting technicians, Doctoral candidates, house officers, and collaborators. Minimum qualifications include a Ph.D. in one of the biological sciences. Experience with molecular biology highly desirable but not absolutely necessary. A good opportunity to develop independence in the laboratory. Send résumé and three names and addresses of references to: **Ms. Jan Baxter, Medical Services Administrator, SIU School of Medicine, P.O. Box 19636, Springfield, IL 62794-9636. Closing date January 20, 2000, or until filled. SIU-SM is an Equal Opportunity/Affirmative Action Employer.**

**POSTDOCTORAL POSITION** available to study antigenic variation in influenza virus and the function of neuraminidase. Candidates should have experience in at least two of the following: molecular biology, enzymology, X-ray crystallography, virology, and immunology. Send curriculum vitae and names of three references to: **Dr. Gillian Air, Department of Biochemistry and Molecular Biology, BMSB 840, University of Oklahoma Health Sciences Center, P.O. Box 26901, Oklahoma City, OK 73190. E-mail: gillian-air@ouhsc.edu.**

## GLOBAL OPPORTUNITIES

### FACULTY POSITION FOR NEUROSCIENTIST FACULTY OF LIFE SCIENCES Tel Aviv University

The Department of Neurobiochemistry is seeking a tenure-track faculty member in the area of neuroscience. The successful candidate will be an outstanding researcher with a commitment to the neurosciences. The candidate is expected to develop and maintain an active program of research and teaching at the graduate and undergraduate levels. Interested candidates should send a letter with a description of their career goals and research interests, their curriculum vitae, and names and addresses of five references to: **Professor Yoel Kloog, Department of Neurobiochemistry, Tel Aviv University, Tel Aviv 69978, Israel. Applications will be reviewed upon receipt.**

## POSITIONS OPEN

### POSTDOCTORAL FELLOWSHIPS

Training in heart valve disease mechanisms, arterial injury and restenosis, cardiac development, gene therapy for cardiac arrhythmias, and tissue engineering. Ph.D. or M.D. candidates should send curriculum vitae to:

**Robert J. Levy, M.D.**  
Director, Cardiovascular Research  
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The Children's Hospital of Philadelphia  
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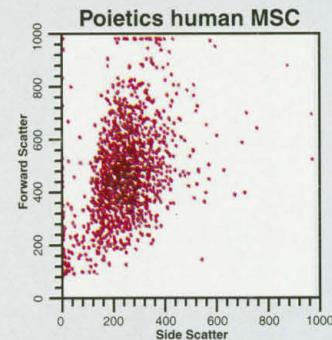
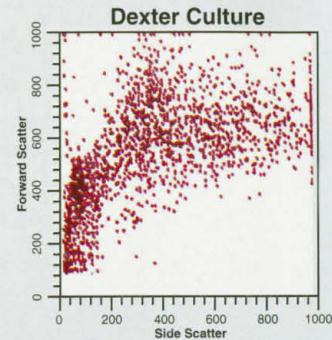
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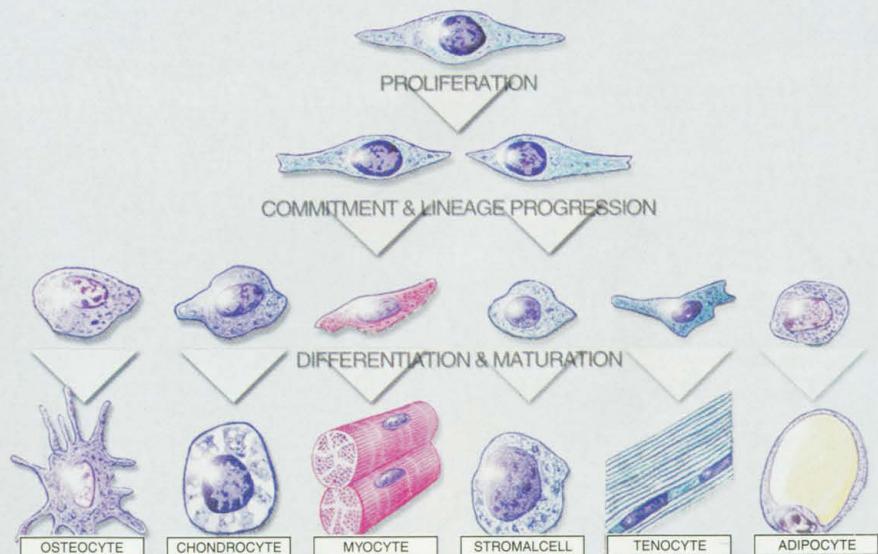


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