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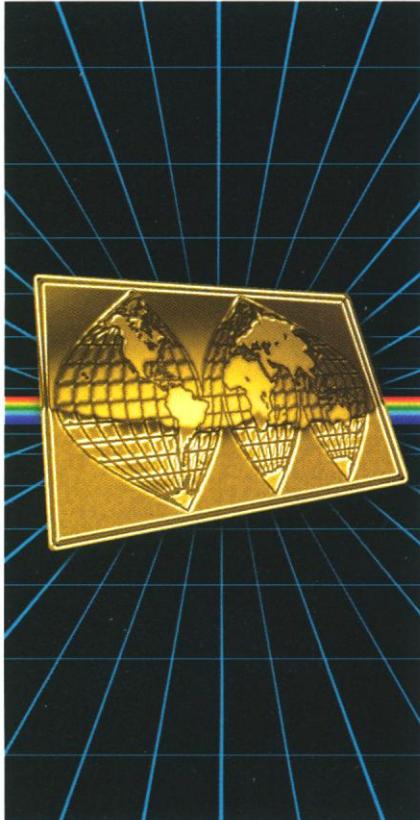
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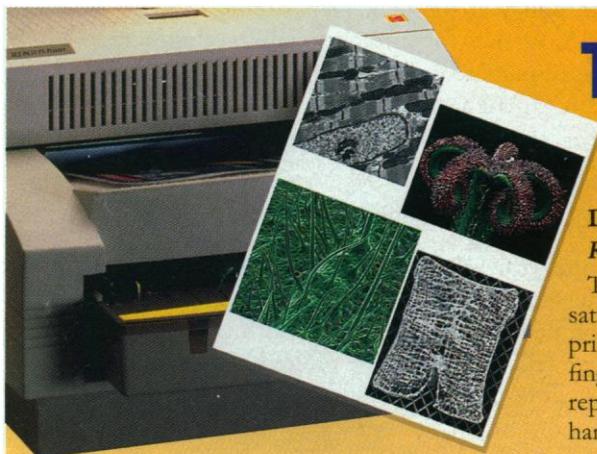
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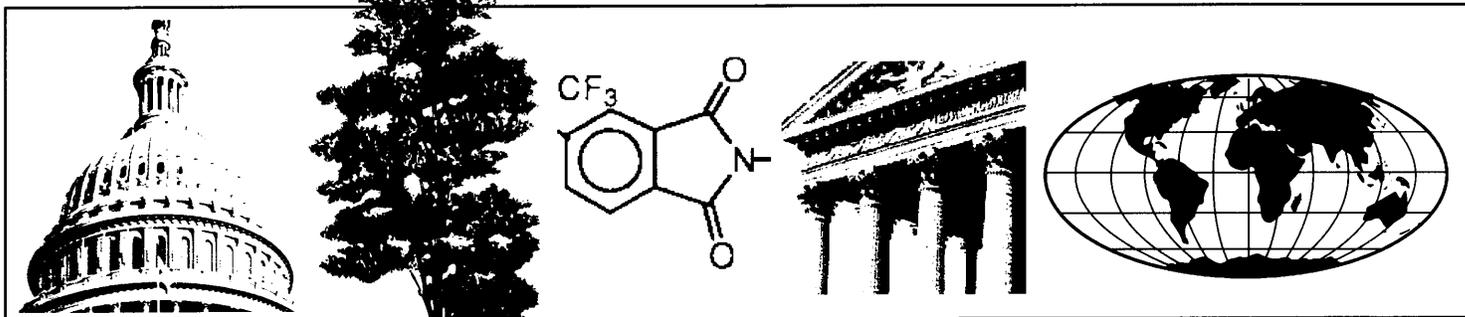
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For additional information and application instructions, write:

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Washington, DC 20005

202/326-6600 Fax: 202/289-4950

Internet: [science\\_policy@aaas.org](mailto:science_policy@aaas.org)

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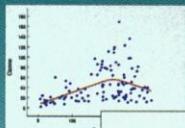
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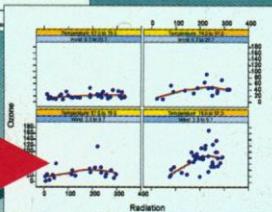
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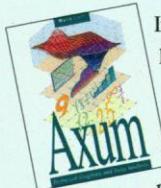
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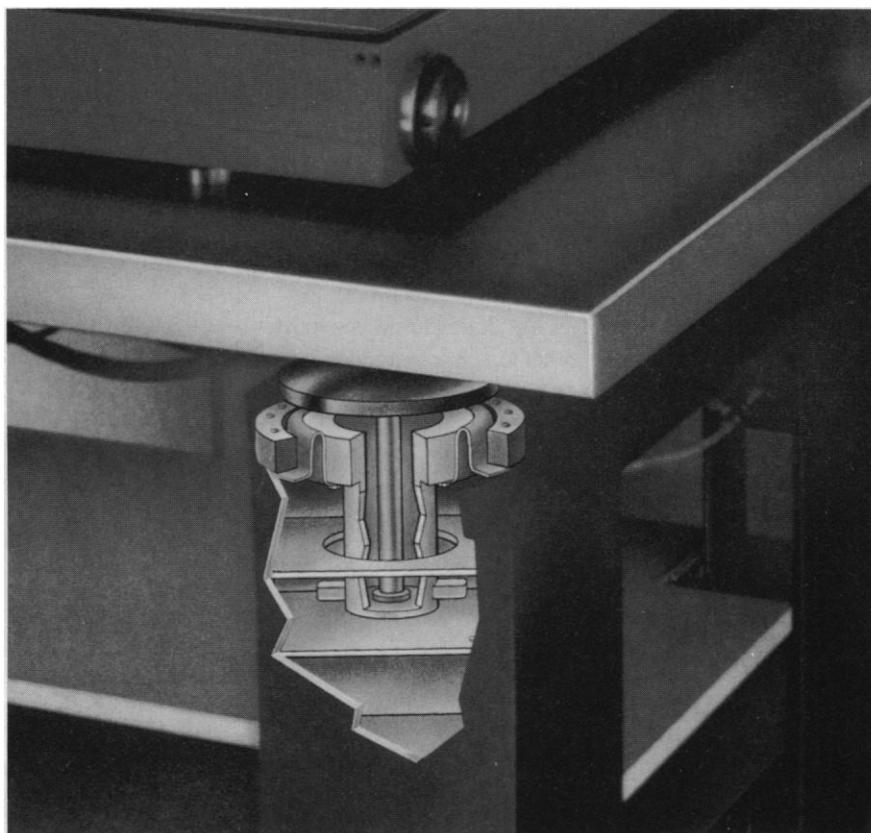
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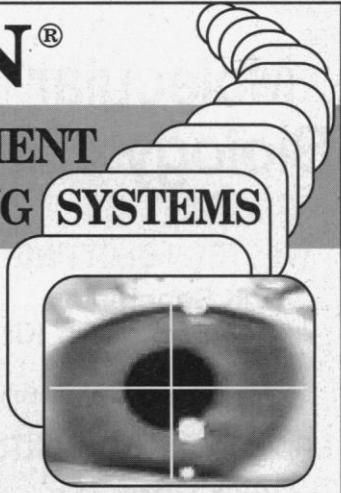


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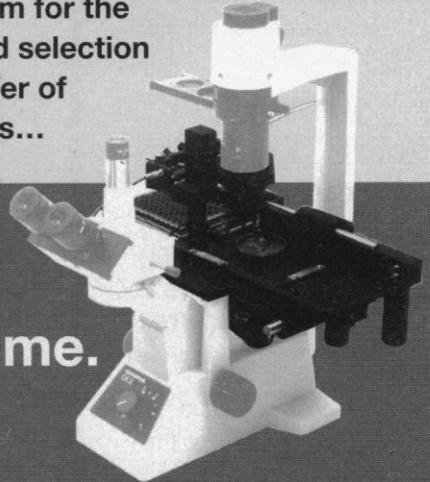
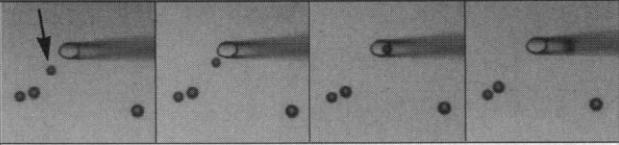
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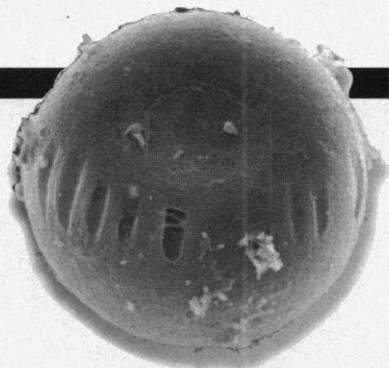
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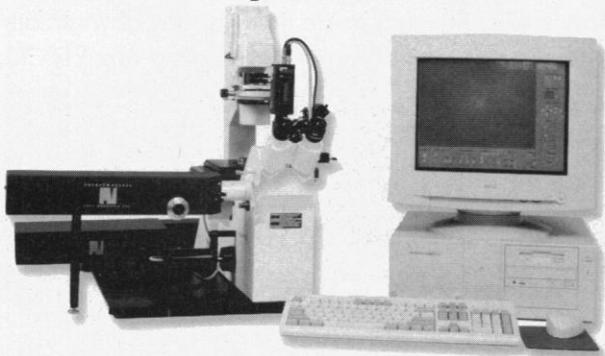
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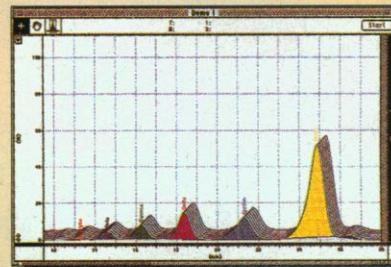
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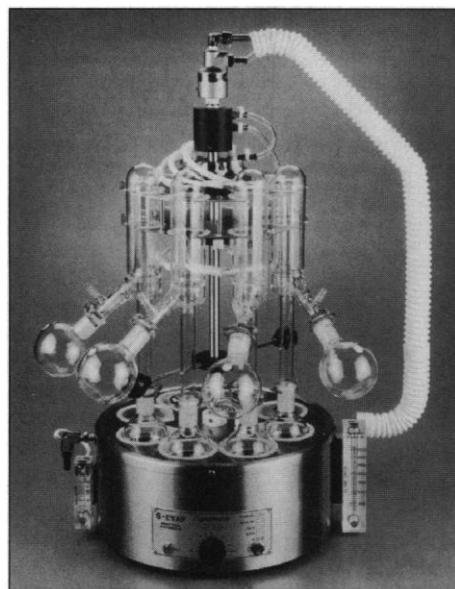


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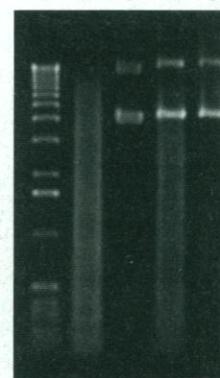
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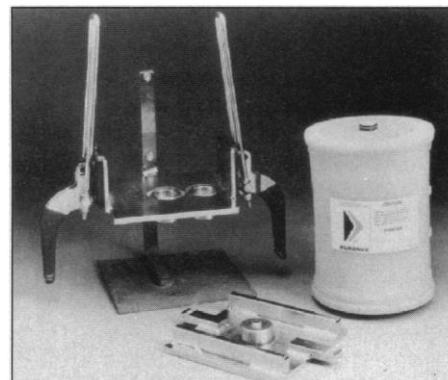
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*Gas Chromatography Supplies Catalog* includes ordering and other information on injectors, detectors, autosampler accessories, capillary column accessories, headspace and automated thermal desorption accessories, subambient accessories, lab supplies, pneumatics, valves and accessories, and data handling. A literature reference section is also included. **Perkin-Elmer. Circle 148.**

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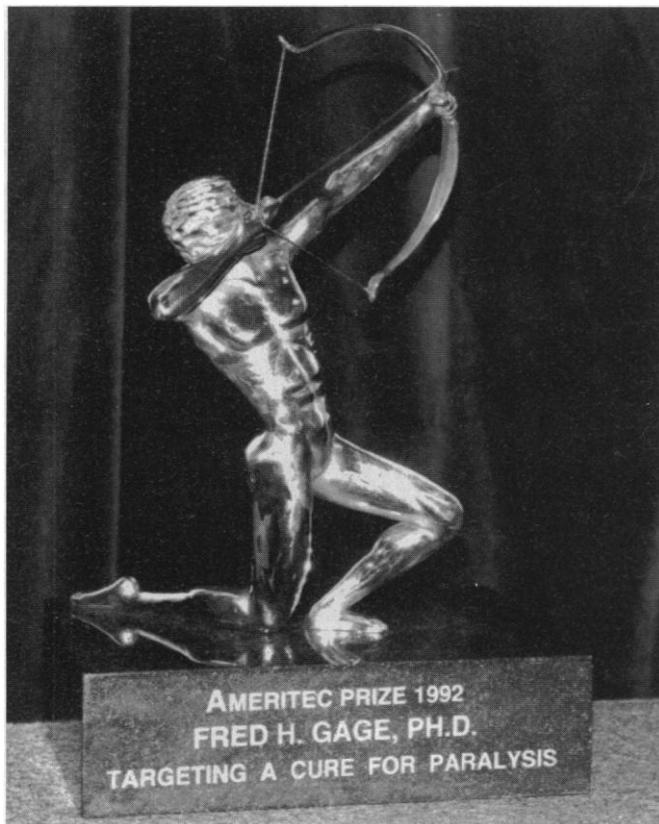
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# Invitation to Nominate for the “Ameritec Prize”

The Ameritec Foundation is soliciting nominations for the 1997 Ameritec Prize.



## The Prize

The Ameritec Prize was established by the Ameritec Foundation in 1987 for the encouragement of basic medical research towards a cure for paralysis resulting from spinal cord injury.

The Prize is awarded annually and is composed of three parts:

1. A \$25,000 Recognition Grant.
2. An inscribed sculptured statuette of “The Archer”, symbolizing the accomplishment and commitment by the recipient in “targeting a cure for paralysis.”
3. Public acknowledgement of the recipient and recognition of their accomplishment.

## The Criteria

- The Prize recognizes a specific significant accomplishment toward a cure for paralysis resulting from spinal cord injury.
- The accomplishment submitted must be in basic medical research.
- The accomplishment submitted must be exhaustively documented and confirmed.
- The Prize will be awarded to that individual most responsible for the accomplishment.
- The Ameritec Prize recipient must agree to allow and actively support publication of the accomplishment.

Any interested party is invited to submit a nomination. Nomination forms may be obtained by telephone, fax or E-mail.

Nominations for the 1997 Ameritec Prize must be submitted before 30 March 1997. **Circle No. 105 on Readers' Service Card**

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**FOUNDATION**

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For a comprehensive package including guidelines for grant submittal, scientific publications, application notes and a reference guide, please contact:

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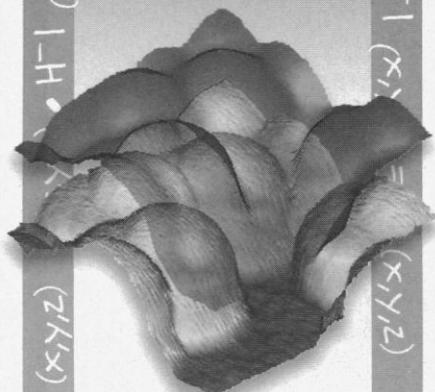
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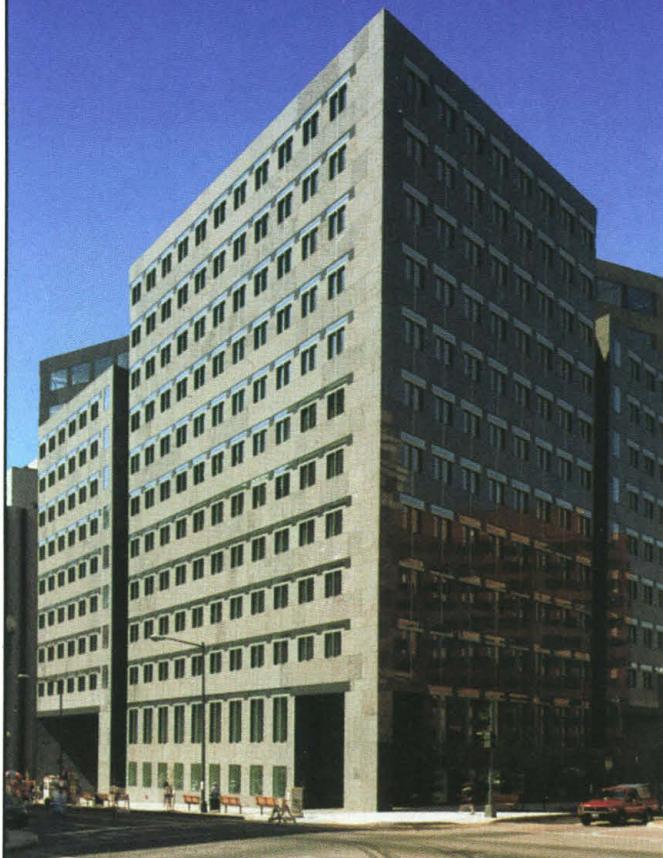


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Applicants must be Board-eligible/certified in neurology with fellowship training and research experience. Please submit résumés to:

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Send curriculum vitae, letter describing qualifications and interests, one example of written work, and names and addresses of three references to: **Chair, HBE Search Committee, Department of Anthropology, Stanford, CA 94305-2145.** The deadline for applications is January 15, 1997.

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## POSITIONS OPEN

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Application deadline is January 20, 1997, or until the position is filled. Candidates should submit a curriculum vitae and statements of teaching and research interests, and should request that three letters of reference be sent to: **Dr. John J. Wagner, College of Pharmacy, 123 Sudro Hall, Fargo, ND 58105.**

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Neuroscience Search Committee  
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### MICROBIOLOGY POSITION

The Department of Life Sciences at the University of Missouri-Rolla invites applications from qualified individuals for a tenure-track position at the level of **ASSISTANT PROFESSOR** to begin August 15, 1997. Qualifications include the doctoral degree and postdoctoral experience in microbiology or related area of biological science, evidence of excellence in teaching, and demonstrated ability to conduct research. The successful applicant will be expected to teach undergraduate microbiology and assist in the development of graduate level research and coursework. Send curriculum vitae, statement of research and teaching interests, and three letters of reference to: **Faculty Search Committee, Life Sciences Department, University of Missouri-Rolla, Rolla, MO 65409-1120.** Deadline for receipt of applications is January 15, 1997. University of Missouri-Rolla is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

Biology. Three entry-level, tenure-track **ASSISTANT PROFESSOR** positions beginning August 1997. Must have Ph.D., a strong teaching commitment, teaching experience, and postdoctoral research experience. Research with undergraduate and graduate (M.S.) students expected. These positions are 1) Cell Biologist/Ultrastructure, 2) Plant Population Geneticist, and 3) Plant Community Ecologist. For additional requirements visit our web site at <http://bioweb.wku.edu/BD/Positions.html>. Send letter of application, curriculum vitae, statements of teaching and research interests, and three letters of recommendation to: **Department of Biology, Western Kentucky University, 1 Big Red Way, Bowling Green, KY 42101-3576.** Review of applications begins January 3, 1997. Open until filled. Women and minorities are encouraged to apply. Affirmative Action/Equal Opportunity Employer.

inside

The pipeline is filling at Immulogic. We've successfully brought our two lead treatments for cat and ragweed allergies to late stage clinical development. Preclinical development is nearing completion for our first treatment for the autoimmune disease multiple sclerosis, and promising future treatments for cocaine abuse and poison ivy. Immulogic has the people, resources and exciting career possibilities needed to advance these multiple product opportunities. Join our organization and experience the research, clinical and manufacturing expertise that keeps us on the industry forefront.

IMMULOGIC



### Development Senior Scientist/Manager

In this key position, you will be responsible for developing all phases of parenteral dosage form for novel peptide and protein drug candidates, providing data and reports pertaining to formulation development in support of regulatory submissions (IND/PLA), and supervising the day-to-day activities of the technical staff. The ideal candidate will have a Ph.D. in Pharmaceutical Chemistry or Pharmaceutical Sciences, at least 5 years of appropriate practical experience, and strong understanding of related scientific principles. Expertise in assay methods development, pre-formulation/physical pharmacy and formulation development for parenteral (lyophilized and liquid) peptide and protein products preferred.

### Scientists - Immunology

The right candidates will join our dynamic research department currently engaged in allergy, autoimmune disease and drug abuse therapy. Requires Ph.D. in Immunology or related field, 2 years of post-doctoral experience, a strong publication record, background in cellular immunology and experience with mucosal immunology, peptide and immune tolerance. Experience with animals models a plus.

### Pharmacologist

Experienced scientist needed to manage the start-up of a pharmacology group in our dynamic research organization. Individual must have Ph.D. in Pharmacology, and 5 years of industrial experience. Immunology, peptide chemistry, central nervous system pharmacology and toxicology experience preferred.



The clear relationship between business and science

As part of our growing team, you'll enjoy a wide array of professional and personal advantages — from our competitive salary, equity and benefits package, to our entrepreneurial environment. Please send your resume to: **Human Resources, Immulogic Pharmaceutical Corporation, 610 Lincoln Street, Waltham, MA 02154.** An equal opportunity employer. Principals.

## CONFERENCE

### Tenth Annual Complex Systems Summer School

**June 1-27, 1997 in Santa Fe, New Mexico**  
For graduate students and postdoctoral fellows, an intensive introduction to "complex" behavior in mathematical, physical, and living systems. Topics include complexity and evolution, probabilistic methods in complex systems, mathematic neuroscience, and nonlinear applications to geology, oceanography, and atmospheric sciences. Interactive format encourages group and individual research projects. Computer laboratory. Tuition support. *Women and minorities encouraged to apply.*

Co-Directors: Lynn Nadel, Psychology, University of Arizona; Daniel Stein, Physics, University of Arizona

Further Information and application instructions from:

<http://www.santafe.edu/sfi/education/summer-school.html>

e-mail: [summerschool@santafe.edu](mailto:summerschool@santafe.edu)

Summer School, Santa Fe Institute

1399 Hyde Park Road

Santa Fe, New Mexico 87501

Tel. 505-984-8800; fax 505-982-0565

Application instructions: Provide a current resume (with publications list); a statement of your current research interests; comments about why you want to attend the School, and two letters of recommendation from scientists who know your work. Send complete application packages only, preferably by postal mail, to the above address. Include your e-mail address and/or fax number. No funds available for travel.

Application deadline: February 1, 1997. Applications incomplete at this time will not be considered.



The Department of Biological Sciences of the Columbian School of Arts and Sciences invites applications for the position of:

**ROBERT F. GRIGGS**

### RESEARCH PROFESSOR OF BIOLOGICAL SCIENCES

This tenure-track position will be filled at the Assistant Professor level by a scientist studying the evolution of **vascular plants**.

Applicants with research in the phylogenetic analysis of coevolution or biogeography are preferred but others studying the phylogeny of plants are encouraged to apply. Candidates with postdoctoral experience will be preferred. The successful candidate should be prepared to develop a funded research program involving graduate and undergraduate students. In addition to training students in research, the Robert F. Briggs Research Professor will offer one or two courses in their field per year. Substantial start-up funds are available. Review of applications will begin on December 1 and continue until the position is filled. The starting date for the position will be September 1, 1997.

Please send a letter of application describing research goals for the next five years and teaching interests, a curriculum vitae, three relevant reprints, and three letters of reference to:

**Diana Lipscomb**

Chair of Search Committee

Department of Biological Sciences, 307 Lisner Hall

The George Washington University

Washington, DC 20052

*The George Washington University is an Equal Opportunity, Affirmative Action Employer. Applications from women and minority scientists are strongly encouraged.*

## UNIVERSITY OF HAWAII AT HILO FACULTY POSITION

**ASSISTANT PROFESSOR OF MARINE SCIENCE:** Position Number 83207, Pay Range: I3; College of Arts and Sciences, general funds; full-time; tenure-track; nine-month appointment; to begin approximately August 1997, pending funding and position clearance. **DUTIES:** Teach undergraduate courses in chemical oceanography, marine microbiology, plankton ecology, marine monitoring techniques, introductory courses in marine biology and oceanography, and labs/field excursions for any of the above courses; conduct field research in open ocean chemical oceanography and marine microbiology/plankton ecology, seek extramural research funding, and publish results; advise students, participate in community service activities related to marine science, participate in university governance activities including committees, advisory boards, etc. **MINIMUM QUALIFICATIONS:** Ph.D. in Oceanography from an accredited college or university and demonstrated expertise in teaching marine science courses. **DESIRABLE QUALIFICATIONS:** Postdoctoral teaching at the college or university level, experience in supervising undergraduate research activities, open-ocean research experience, publications relevant to the specialties mentioned above. **MINIMUM ANNUAL SALARY:** \$32,028. **APPLICATIONS:** Send letter of application and curriculum vitae, and arrange to have three letters of recommendation sent to **Walter C. Dudley, Marine Sciences Department, University of Hawaii at Hilo, 200 W. Kawili Street, Hilo, HI 96720-4091.** **INQUIRIES:** (808) 933-3629. **APPLICATION DEADLINE:** Postmarked no later than January 31, 1997.

**AN EQUAL EMPLOYMENT OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER**



# Cold Spring Harbor Laboratory



## 1997 Courses

**Spring Application**  
Deadline: January 15, 1997

### Advanced Genome Sequence Analysis

March 14 - 27  
Ellson Chen, Richard Gibbs,  
Dick McCombie, Richard Wilson

### Early Development of *Xenopus Laevis*

April 8 - 17  
Paul Kreig, Sally Moody

### Cloning & Analysis of Large DNA Molecules

April 8 - 21  
Ken Dewar, Harry Riethman, Rod Wing

### Protein Purification and Characterization

April 8 - 21  
Richard Burgess, Al Courey,  
Sue-Hwa Lin, Sheenah Mische

**Summer Application**  
Deadline: March 15, 1997

### Developmental Neurobiology

June 4 - 17  
Cornelia Bargmann, Steven Burden

### Advanced Bacterial Genetics

June 6 - 26  
Bonnie Bassler, Colin Manoil,  
James Schlauch

### Integrated Approaches to Ion Channel Biology

June 6 - 26  
John Caldwell, Rock Levinson,  
Robert Maue

### Molecular Embryology of the Mouse

June 6 - 26  
Peter Koopman, Terry Magnuson

### Structure, Function & Development of the Visual System

June 18 - July 1  
Tobias Bonhoeffer, David Fitzpatrick

### *Arabidopsis* Molecular Genetics

June 30 - July 20  
Jane Glazebrook, Eric Lam, Robert Last

### Molecular Cloning of Neural Genes

June 30 - July 20  
Robert Darnell, Catherine Dulac,  
Fabio Rupp, Tito Serafini

### Neurobiology of *Drosophila*

June 30 - July 20  
Michael Dickinson, Nipam Patel,  
Barbara Taylor

### Brain Mapping

July 8 - 14  
John Mazziotta, Arthur Toga

### Biology of Memory: From Molecules to Behavior

July 18 - 31  
Jack Byrne, Howard Eichenbaum,  
Keir Pearson, Larry Squire

### Eukaryotic Gene Expression

July 23 - August 12  
Michael Carey, Grace Gill,  
David Gilmour, Stephen Smale

### Imaging Structure & Function in the Nervous System

July 23 - August 12  
Arthur Konnerth, Fred Lanni,  
Rafael Yuste

### Yeast Genetics

July 23 - August 12  
Allison Adams, Daniel Gottschling,  
Tim Stearns

### Neurobiology of Human Neurological Disease: Mechanisms of Neurodegeneration

August 4 - 10  
Sam Gandy, Sangram Sisodia

Further information available  
at our web site:  
<http://www.cshl.org/>

## 1997 Meetings

### Cell & Molecular Biology of *Aplysia* & Related Invertebrates

April 16 - 20  
Jack Byrne, Reinhard Jahn,  
Len Kaczmarek, Eric Kandel  
Abstract Deadline, January 22

### Biology of Proteolysis

April 23 - 27  
Charles Craik, Susan Gottesman,  
Mark Hochstrasser, Yuri Lazebnik  
Abstract Deadline, January 29

### Regulation of Liver Gene Expression in Health & Disease

April 30 - May 4  
Gretchen Darlington, Rebecca Taub,  
Ken Zaret  
Abstract Deadline, February 5

### Tyrosine Phosphorylation & Cell Signaling

May 7 - 11  
Benjamin Neel, Nicholas Tonks  
Abstract Deadline, February 12

### Genome Mapping & Sequencing

May 14 - 18  
David Bentley, Eric Green,  
Philip Hieter  
Abstract Deadline, February 19

### Retroviruses

May 20 - 25  
Steven Hughes, John Coffin  
Abstract Deadline, February 26

### 62nd Symposium: Pattern Formation During Development

May 28 - June 2  
Bruce Stillman  
Abstract Deadline, March 5

### Yeast Cell Biology

August 12 - 17  
Trisha Davis, Mark Rose, Tom Stevens  
Abstract Deadline, May 28

### Eukaryotic mRNA Processing

August 20 - 24  
Adrian Krainer, James Manley,  
Timothy Nilsen  
Abstract Deadline, June 4

### Mechanisms of Eukaryotic Transcription

August 27 - 31  
Nouria Hernandez, Robert Kingston,  
Keith Yamamoto  
Abstract Deadline, June 11

### Eukaryotic DNA Replication

September 3 - 7  
Thomas Kelly, Bruce Stillman  
Abstract Deadline, June 18

### Microbial Pathogenesis and Host Response

September 10 - 14  
P. T. Magee, Stanley Maloy,  
Ronald Taylor  
Abstract Deadline, June 25

### Programmed Cell Death

September 17 - 21  
H. Robert Horvitz, Stanley Korsmeyer, Eileen White,  
Abstract Deadline, July 2

### Neurobiology of *Drosophila*

September 24 - 28  
Chris Doe, Linda Hall  
Abstract Deadline, July 9

### Human Evolution

October 4 - 8  
Luigi Cavalli-Sforza, James D. Watson  
Abstract Deadline, July 16

Meetings and Courses Office

### Cold Spring Harbor Laboratory

1 Bungtown Road, PO Box 100  
Cold Spring Harbor, N.Y. 11724-2213

Email: [meetings@cshl.org](mailto:meetings@cshl.org)  
Fax: 516-367-8845 Phone: 516-367-8346

The Neurosciences Institute is an independent, not-for-profit organization at the forefront of research on the brain. Located in San Diego, the Institute is also the home of the Neurosciences Research Program and serves as an international meeting place for neuroscientists; Fellows have opportunities to interact with visitors from many institutions worldwide.

#### FELLOW IN THEORETICAL NEUROBIOLOGY

Applications are invited for positions as Junior or Senior Fellow in Theoretical Neurobiology. Since 1987, the Institute has had a research program dedicated to developing biologically based, experimentally testable theoretical models of neural systems. Current projects include large-scale simulations of neuronal networks, the design of behaving automata, and detailed formulations of biologically based perceptual systems. Junior Fellows will have opportunities for collaborations with Senior Fellows in Theoretical Neurobiology and colleagues at the Institute in developing neural models and theoretical approaches to understanding brain function. Fellows in Theoretical Neurobiology will also have daily opportunities to interact with Fellows in Experimental Neurobiology.

Applicants should be at the postdoctoral (Junior Fellow) or assistant professor (Senior Fellow) level with strong backgrounds in experimental or theoretical neuroscience or related fields. Experience in computer modeling is especially welcome. Positions are available now.

Fellows will receive stipends appropriate to their qualifications and experience. Candidates should send a short statement of research interests, a curriculum vitae, and the names of three references to: **Dr. Gerald M. Edelman, Director, The Neurosciences Institute, 10640 John Jay Hopkins Drive, San Diego, California 92121.**

### Invitation for Proposals for Science and Technology Meetings

The New York Academy of Sciences sponsors 15-20 major conferences and workshops each year. These meetings offer an impartial forum for scientists, engineers, physicians, students, and researchers from corporations, universities and government agencies to present current research as well as discuss its policy implications. Conference proceedings are generally published in *The Annals of the New York Academy of Sciences*, which ranks in the top two percent of the most cited publications in the world.

The Academy invites proposals for meetings to be held during 1997-98. Topics may be in any frontier field of biology, medicine, physics, chemistry, engineering, mathematics, computers, and technology. The Academy also encourages proposals for meetings in problem-oriented, multi-disciplinary subject areas, such as the environment, energy, population, telecommunications, and other issues at the interface of science, technology and society. Proposals are peer-reviewed, and the Academy provides continuing medical education credits for appropriate meetings.

*For information on application procedures, please direct inquiries to:*

Rashid Shaikh, Ph.D.  
Director, Science and Technology Meetings  
New York Academy of Sciences  
2 East 63rd Street, Box S  
New York, N.Y. 10021  
Fax: 212.838.5640  
E-mail: [conference@nyas.org](mailto:conference@nyas.org)



### Northeastern Ontario Regional Cancer Centre

The Northeastern Ontario Regional Cancer Centre is a division of the Ontario Cancer Treatment and Research Foundation (OCTRF). The OCTRF, through its regional cancer centres, provides a province-wide system of cancer prevention, treatment, research and education. We are currently seeking a...

#### Post-Doctoral Fellow (Molecular Biology)

to join our recently established Tumour Biology Research Group. This individual will significantly advance a research program related to protein kinase C and its role in carcinogenesis/tumour promotion.

**QUALIFICATIONS:** The successful applicant will be a recent graduate from a recognized Ph.D. program in Molecular Biology, Biochemistry or equivalent and will have recently authored one or more significant publications in biochemistry/molecular biology or equivalent. He/she will have a keen interest in cell signal transduction and the molecular biology of cancer. Strong computing skills and working knowledge of wordprocessing and graphics software is desirable. Applicants possessing good public speaking, communication and interpersonal skills as well as demonstrated planning, organizational and analytical skills will be considered favourably. Proficiency in written/oral English is required; fluency in oral French will be considered an asset.

Qualified and interested persons are invited to submit their curriculum vitae and three letters of reference, no later than Friday, January 3, 1997, to: Dr. A. Parissenti, Laboratory Director, Northeastern Ontario Regional Cancer Centre, 41 Ramsey Lake Road, Sudbury, Ontario P3E 5J1 or Fax: (705) 523-7326. Please quote filename: PDF10/96.

*We are an equal opportunity employer.*

**THE ONTARIO CANCER TREATMENT  
AND RESEARCH FOUNDATION**



**Structural Biology Program, University of Vermont College of Medicine:** As part of a strong commitment to the development of structural biology at the University of Vermont, the College of Medicine invites applications and nominations for **three full-time faculty positions**. We welcome applications from highly talented scientists with demonstrated expertise and accomplishments in the application of state-of-the-art methods in x-ray crystallography or NMR spectroscopy to important biological problems.

Applicants must have a strong background in the structure and dynamics of proteins and/or nucleic acids. Tenure-track positions may be filled at the rank of Assistant or Associate Professor. Individuals with exceptional records of accomplishment and experience may be considered for tenured positions at the rank of Professor.

Positions and facilities are funded in part through grants from the **Howard Hughes Medical Institute** and the **Lucille P. Markey Charitable Trust**. Primary appointments are available in the Departments of Biochemistry, Molecular Physiology and Biophysics, Microbiology and Molecular Genetics, and Pharmacology. Adjunct appointments in the Department of Chemistry and/or in College of Medicine departments will be arranged by mutual agreement. Further information about departmental programs and research interests can be obtained at <http://www.uvm.edu>.

Applicants should submit a curriculum vitae, research interests and plans, and names of three references to:

**Dr. John M. Burke, Chair**  
**Structural Biology Search Committee**  
**University of Vermont College of Medicine**  
**E-109 Given Building**  
**Burlington, VT 05405**

*The University of Vermont is an Equal Opportunity/Affirmative Action Employer. Women and people from diverse racial, ethnic, and cultural backgrounds are encouraged to apply.* Review of applications will begin immediately. The deadline for receipt of applications is February 1, 1997.

# DIRECTOR of MOLECULAR BIOLOGY



*Astra is a pharmaceutical company in a phase of rapid growth. The company's operations, which are highly international, consist of research, production, and marketing of pharmaceuticals through subsidiaries in about 40 countries.*

*Astra Arcus USA, Inc. is a research unit of Astra Arcus AB, one of the five research product companies of Astra. Like the parent product company, Astra Arcus USA is wholly engaged in research targeted to the discovery of new drugs for central nervous system diseases, primarily stroke and neurodegenerative diseases. The US facility is located in upstate New York, ideally situated between the shores of Lake Ontario and the Finger Lakes, in a suburb of Rochester, New York. In order to support on-going and future drug discovery efforts, an immediate vacancy exists for a Director of Molecular Biology.*

Astra is committed to being the best and most respected scientific pharmaceutical company in the world. The mission of Astra Arcus is to identify and develop innovative drugs meeting important medical needs for CNS diseases.

To achieve this goal, Astra Arcus is expanding its molecular biology/genetics capabilities and is seeking an individual who will lead this effort. The Director of Molecular Biology will be responsible for establishing and managing a dedicated state-of-the-art molecular biology and genetics group.

This highly visible group will be responsible for cloning and expressing proteins and generating transgenic animals. They will also play a critical role in target identification efforts. The Director will serve as the primary interface between Astra Arcus USA and external activities in molecular sciences.

The ideal candidate will have a Ph.D. with at least seven years of combined experience in academic and in the pharmaceutical industry which includes at least three years of management responsibilities. A background in molecular and cellular neurobiology is highly desired.

This position offers an attractive compensation and benefits package including 401(k) and managed relocation assistance. For consideration please send resume, including a salary history, to: **Human Resources Department, Astra Arcus USA, Inc., P.O. Box 20890, Rochester, NY 14602.** Equal Opportunity Employer M/F/D/V.

**Astra Arcus USA**  
**ASTRA ARCUS**

## POSTDOCTORAL FELLOWSHIPS

Postdoctoral Fellowships funded by a training grant from NINDS are available to support research training at SUNY STONY BROOK in Molecular, Cellular, Systems and Behavioral Neuroscience. Applicants must be U.S. citizens or permanent residents. Women and minorities are especially encouraged to apply. Competitive salary based upon established NIH guidelines.

For further information concerning opportunities contact faculty members listed below c/o Department of Neurobiology & Behavior, State University of New York, Stony Brook, NY 11794-5230, Tel. 516-632-8616, Fax 516-632-6661. Detailed information on Neurobiology at Website <http://life.bio.sunysb.edu/>. An Affirmative Action/EEO employer and educator.

Paul Adams	James Gnadt	Susan McLaughlin
Peter Brink	Simon Halegoua	Lorne Mendell
Paul Brehm	Robert Hitzemann	Larry Morin
John Cabot	Maunce Keman	Nisson Schechter
Albert Carlson	Mary Kritzer	Jakob Schmidt
William Collins	Edmund LaGamma	Murray Sherman
James Davis	Joel Levine	James Trimmer
Craig Evinger	Gail Mandel	Pat Whitaker
Marian Evinger	Gary Matthews	Benjamin Walcott
Joseph Fetcho	David McKinnon	Stephen Yazulla
Michael Frohman	Stuart McLaughlin	



## NEUROSCIENTIST

The University of Calgary Department of Anatomy and the Neuroscience Research Group invite applications for a full-time academic Neuroscientist in the field of molecular and/or cellular studies of the development or plasticity of the nervous system. This position offers an excellent opportunity to develop an independent research program and collaborative interactions within a multidisciplinary research environment. Duties will also include teaching and graduate student supervision.

Qualifications include a PhD (or equivalent), at least two years' postdoctoral experience, and a proven record of excellence in research.

The selected candidate must compete successfully for salary and establishment funding from the Alberta Heritage Foundation for Medical Research and/or Medical Research Council of Canada, and will have 75% of time protected for research. Interested persons are invited to visit our website (<http://www.cns.ucalgary.ca/nrg/nrg.html>).

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada.

The University of Calgary is committed to Employment Equity.

Please submit a curriculum vitae and a statement of research interests, and arrange to have three letters of reference sent directly, by January 10, 1997, to:

Dr. R. Hawkes, Head  
Department of Anatomy  
The University of Calgary  
3330 Hospital Drive N.W.  
Calgary, Alberta, Canada T2N 4N1



[www.ucalgary.ca](http://www.ucalgary.ca)



### UCLA Neuroscience

The University of California, Los Angeles, as part of a major initiative in neuroscience, is seeking to fill three faculty positions. Appointments will be at the Assistant (tenure-track) Professor level. Appointments at the Associate (tenured) Professor level will be considered for exceptional candidates.

#### Department of Neurobiology

**Molecular Neurobiology:** Molecular analysis of processes such as synaptic transmission, neural integration, and behavior.

**Cellular/Synaptic Neurobiology:** Studies of signal transmission at synapses and/or of control of neuronal excitability.

#### Departments of Neurobiology and Psychology - Joint Appointment

**Behavioral Neuroscience:** Studies of the neural basis of vertebrate learning and memory that focus jointly at cellular and behavioral levels.

All appointees will be expected to teach in their areas of expertise. Ph.D. and/or M.D. and postdoctoral experience are required. For all positions, submit a CV (include phone, fax, and email), 2 copies of reprints and preprints, and a statement of research interests and professional goals. Also arrange for three letters of recommendation to be sent. The application deadline is 1 December 1996. Send application materials to: **Neuroscience Searches, Department of Neurobiology, UCLA, Box 951763, Los Angeles, CA 90095-1763.** Please identify the position for which you are applying. *The University of California is an Equal Opportunity Employer.*

### CELLULAR AND MOLECULAR NEUROBIOLOGY Postdoctoral/Research Associate Positions

The Loeb Research Institute at the Ottawa Civic Hospital, University of Ottawa, has an active program in cellular and molecular neurobiology with themes related to neurotransmission, cellular homeostasis, and response to ischemic/anoxic injury. The Neuroscience Program encompasses both basic and clinical research in an integrated environment with Institute programs in hormones, growth and development, and clinical epidemiology. Positions for 1-3 years are available to candidates holding a Ph.D. and/or M.D. and expertise in molecular and/or cellular neurobiology, electrophysiology (patch and voltage clamp), and/or confocal microscopy, to work with faculty on the research areas shown below. Stipends start at \$28,650/annum.

<b>Petro Doroshenko, Ph.D.</b>	Volume-regulated ion channels
<b>Bin Hu, M.D., Ph.D.</b>	Synaptic circuitry and function in auditory thalamus and cortex
<b>Howard Lesiuk, M.D.,</b>	Signal transduction in CNS ischemia
<b>Catherine Morris, Ph.D.</b>	Mechanosensitive ion channels and membrane trafficking
<b>Johnny Ngsee, Ph.D.</b>	Molecular mechanisms of synaptic transmission
<b>Leo Renaud, M.D., Ph.D.</b>	CNS circuits regulating autonomic and neuroendocrine function
<b>Peter Stys, M.D.</b>	Sodium and calcium-dependent mechanisms in anoxic/ischemic injury in CNS
<b>Mario Tiberi, Ph.D.</b>	Signal transduction at dopaminergic receptors

For details, contact any of the scientists by fax at 613-761-5360. By December 15, 1996, applicants to a specific project should submit a CV, names of three referees, and a brief statement of research interests to the appropriate scientist(s) at: **Ottawa Civic Hospital Loeb Research Institute, 1053 Carling Avenue, Ottawa, Ontario, K1Y 4E9, CANADA.**

OTTAWA CIVIC HOSPITAL  
HÔPITAL CIVIC D'OTTAWA



UNIVERSITÉ D'OTTAWA  
UNIVERSITY OF OTTAWA

**OTTAWA CIVIC HOSPITAL  
LOEB RESEARCH INSTITUTE**

# MARINE BIOLOGICAL LABORATORY

WOODS HOLE · MASSACHUSETTS

## 1997 COURSE OFFERINGS

### • CELLULAR AND MOLECULAR BIOLOGY

#### **Biology of Parasitism: Modern Approaches**

June 12 - August 15

Director: Stephen L. Hajduk, University of Alabama at Birmingham

#### **Embryology: Concepts and Techniques in Modern Developmental Biology**

June 15 - July 26

Directors: Marianne Bronner-Fraser, and Scott E. Fraser, California Institute of Technology

#### **Physiology: Cellular and Molecular Biology**

June 15 - July 26

(postcourse research: July 28 - August 11)

Director: Mark S. Mooseker, Yale University

### • MICROBIOLOGY

#### **Microbial Diversity**

June 15 - July 31

Directors: Edward R. Leadbetter, University of Connecticut; and Abigail Salyers, University of Illinois

#### **Molecular Mycology: Current Approaches to Fungal Pathogenesis**

August 10 - August 30

Director: Aaron P. Mitchell, Columbia University

### • NEUROSCIENCE

#### **Neural Systems & Behavior**

June 15 - August 8

Directors: Janis C. Weeks, University of Oregon; and Harold H. Zakon, University of Texas

#### **Neurobiology**

June 15 - August 16

Directors: Gary Banker, University of Virginia; and Daniel V. Madison, Stanford University

#### **Methods in Computational Neuroscience**

August 3 - August 30

Directors: David Kleinfeld, University of California, San Diego; and David W. Tank, Bell Laboratories, Lucent Technologies

#### **Neurobiology and Development of the Leech**

August 9 - August 30

Director: Pierre Drapeau, McGill University; and Martin Shankland, University of Texas, Austin

#### **Pathogenesis of Neuroimmunologic Diseases**

August 17 - August 29

Directors: Celia F. Brosnan, Albert Einstein College of Medicine; and Jack Rosenbluth, New York University School of Medicine

### • TECHNIQUES TRAINING

#### **Analytical and Quantitative Light Microscopy**

May 8 - May 16

Directors: Greenfield Sluder and David Wolf, Worcester Foundation for Biomedical Research

#### **Microinjection Techniques in Cell Biology**

May 20 - May 27

Director: Robert B. Silver, Marine Biological Laboratory

#### **Optical Microscopy and Imaging in the Biomedical Sciences**

October 8 - October 16

Director: Colin S. Izzard, State University of New York, Albany

### • GENETICS AND EVOLUTION

#### **Workshop on Molecular Evolution**

August 3 - August 15

(special topics session August 16 - 22)

Directors: Mitchell L. Sogin, Marine Biological Laboratory; and Daniel Davison, University of Houston

### • INFORMATION SCIENCE

#### **Medical Informatics**

(sponsored by the National Library of Medicine)

June 1 - June 8

Director: Daniel Masys, University of California, San Diego



The MBL is an EEO Affirmative Action Institution.

Admissions to MBL courses is competitive; student selection is determined by review committees appointed for each individual course. Substantial financial assistance is available for many programs.

Further information and application forms are available at (<http://www.mbl.edu>) and by contacting:  
Carol Hamel, Admissions Coordinator, Marine Biological Laboratory, 7 MBL Street, Woods Hole, MA 02543-1015  
([admissions@mbl.edu](mailto:admissions@mbl.edu)) Phone: (508) 289-7401



## Developmental Neurobiology Position at PENN

Applications are invited for a tenure track faculty position in the area of Developmental Neurobiology at the University of Pennsylvania School of Medicine. Promising researchers using vertebrate systems to study inductive or trophic interactions, pattern formation, cell fate determination, synaptic specificity, or any other fundamental developmental process in the nervous system are encouraged to apply. Generous startup funds are available. Candidates must hold the M.D., Ph.D., or both degrees. The appointment will be made in the Department of Neuroscience or Neurology, as appropriate. Applicants should send a CV, a brief statement of research interests, and have at least two letters of recommendation sent to:



Chair/Developmental Neurobiology  
Search Committee  
215 Stemmler Hall  
Philadelphia, PA 19104-6074

AN EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER  
WOMEN AND MINORITIES ARE ENCOURAGED TO APPLY.

## BIOLOGY DEPARTMENT

- The Department of Biology at the University of Massachusetts Boston is seeking a tenure-track faculty position at the Assistant Professor level for Fall, 1997. Candidates will be required to teach a year-long introductory biology course, and to participate in general education curriculum. Strong commitment to excellence in undergraduate teaching with experience and ability to manage large courses, incorporate contemporary developments in biology into lectures and labs, and use instructional technology at the introductory level. Active research program that is compatible with important teaching responsibilities. Preference will be given to those with research interests in environmental biology, particularly field ecology, conservation of biodiversity and systematics, or organismic biology. Applicants should have a Ph.D and postdoctoral or equivalent experience. Please submit a curriculum vitae, statement of teaching interests, and research goals, and three letters of reference to Dr. Robert Guimond, Chair of Search Committee, Biology Department, University of Massachusetts Boston, 100 Morrissey Blvd, Boston, MA 02125-3393. Deadline for applications is December 15, 1996. Fax: 617-287-6650, email: [macleod@umbsky.cc.umb.edu](mailto:macleod@umbsky.cc.umb.edu). An Affirmative Action, Equal Opportunity, Title IX, employer. Women and minorities are encouraged to apply.

# U Mass Boston



## University of Cincinnati

### Faculty Positions Cell Biology

The Department of Cell Biology, Neurobiology and Anatomy at the University of Cincinnati Medical Center is inviting applications for two tenure track positions in cancer cell biology. We are primarily seeking individuals at the level of Assistant Professor, but outstanding candidates at any level will be considered. Preference will be given to applicants who use cellular, molecular or developmental approaches to study normal or dysfunctional cell regulation, growth or motility as they relate to cancer. One of the appointees will have expertise in state-of-the-art microscopic techniques. Applicants should have postdoctoral experience.

Successful candidates are expected to develop and maintain an independent extramurally funded research program and to contribute to graduate and medical teaching. Generous start-up support is available. Applicants should send a current curriculum vitae, statement of professional accomplishments and objectives, a description of research interests and names of three references to:

William J. Larsen, Ph.D.  
Cancer Cell Biology Search Committee  
University of Cincinnati College of Medicine  
PO Box 670521  
Cincinnati, Ohio 45267

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

## ASSISTANT PROFESSORS (3) BOTANY, CONSERVATION BIOLOGY AND CELLULAR/MOLECULAR BIOLOGY



The Department of Biology of the University of Nebraska at Omaha invites applications for three **TENURE-TRACK** positions at the Assistant Professor level, for the 1997/98 academic year. We seek individuals who are committed to excellence in undergraduate and graduate teaching, as well as research. All positions require applicants with a Ph.D. and research areas are open. The **BOTANY** position requires teaching an introductory course for majors, which includes units on plant form and function, and a survey of protist, fungal, and plant kingdoms. Depending on his/her specialty, the candidate will also contribute to existing upper-level and graduate courses. Post-doctoral experience is preferred. The **CONSERVATION BIOLOGY** position requires teaching in an introductory environmental biology course that enrolls both majors and non-majors, an upper-level conservation biology course, and appropriate graduate-level teaching. Experience with private or government agencies is preferred. The eukaryotic **CELLULAR/MOLECULAR BIOLOGY** position requires post-doctoral experience and will involve teaching in introductory and upper-level courses in the area of cellular/molecular biology. In addition to baccalaureate and master's degrees in Biology, The Department of Biology offers undergraduate degree programs in Biotechnology and Environmental Studies. For more information visit the biology home page at <http://www.unomaha.edu/biology>. Applications should include a curriculum vitae; a statement of teaching and research interests; and the names, addresses, phone and FAX numbers of three references. Please specify the position and forward applications to **Dr. William D. O'Dell, Chairman, Department of Biology, University of Nebraska at Omaha, Omaha, NE 68182-0040**. Review of applications will begin December 15 and continue until the positions are filled.

*The University of Nebraska at Omaha does not discriminate in its academic employment or admissions policies and abides by all federal, state and regional regulations pertaining to same. Employment Eligibility verification is required for all new hires. UNO provides reasonable accommodation for the known disabilities of applicants and employees, unless to do so would pose an undue hardship. If you need an accommodation in order to complete the application process or to perform any essential element of the position sought, please contact the A-line Affirmative Action Office in the Office of Academic Affairs. Address: Eppley Administration Building 203, University of Nebraska at Omaha, Omaha, NE 68182-0185. Telephone: 402/554-2262, FAX 402/554-4896.*

## MOLECULAR/ IMMUNOLOGY SCIENTISTS

Battelle, a world leader in delivering innovative solutions in research and technology development, is seeking motivated individuals for full-time Molecular and Immunology Scientist positions to work at a remote site located in Utah. Qualified candidates must be U.S. citizens, willing to work with hazardous chemicals, and have extensive laboratory experience and willingness to work with etiological agents in a BL3 facility. Applicants selected will be subject to a government security investigation and must meet eligibility requirements.

**Associate Scientist** - Requires an M.S. in molecular biology, molecular immunology or equivalent, at least four years of laboratory experience, excellent communication and interpersonal skills, and experience in tissue culturing cell lines, purification, characterization, testing of antibodies and antibody-expressing phage.

**Biology Scientist** - Requires a B.S. in molecular biology or equivalent, at least two years of laboratory experience, excellent communication and interpersonal skills, experience in the development and testing of PCR and Origen assays, detection, purification, characterization and testing of antibodies and nucleic acids, and immunologic and molecular analysis.

Battelle offers a competitive and comprehensive package of benefits and salary as well as opportunities for professional challenge and development. **Resumes will be scanned into a database. Mail or fax a cover letter and resume on plain white paper using standard type and fonts to: Battelle, Dept. #N75, 505 King Avenue, Columbus, OH 43201-2693. Fax (614) 424-4643.** This position is located in Utah. Battelle is an Affirmative Action/Equal Opportunity Employer M/F/D/V.



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# REWARDING CAREER OPPORTUNITIES. AWARD-WINNING DISCOVERIES. THIS IS AMGEN...

## RESEARCH SCIENTIST, PROTEIN CHEMISTRY DEPT.

We seek a Protein Biochemist with a record of novel, innovative research. The candidate will join a group which emphasizes collaborative solutions to discovery goals.

A Ph.D. degree in the life sciences or Biochemistry, with post-doctoral research experience, or the equivalent and expertise in protein chemistry, protein purification, and protein characterization are required. Experience with cytokines, cytokine/receptor interactions, or small molecule/protein interactions is preferred.

## RESEARCH ASSOCIATE, PROTEIN CHEMISTRY DEPT.

3 to 4 Positions

Responsibilities for these positions will be to assist Research Scientists or senior-level Associate Scientists in developing and executing protein purification steps and procedures guided by biological and biochemical assays and/or by ligand/receptor interactions, refolding and purification of recombinant proteins, protein characterization including gel electrophoresis and Western blotting, experimental design and data analysis.

A Bachelor's or Master's degree in the life sciences or Biochemistry is required for these positions. Post-degree laboratory experience is highly desirable.

**We recognize that diverse perspectives are a key factor in the process of discovery.**

Amgen offers a generous compensation and benefits package that includes a retirement and savings plan, an on-site fitness center and three weeks' vacation. For immediate consideration, mail your resume to: **Amgen, Staffing, Job Code: TPSC, P.O. Box 2569, Thousand Oaks, CA 91319-2569.** E-mail: [jobs@amgen.com](mailto:jobs@amgen.com) Consult our On-line Job Bulletin Board at: [amgen.bio.com](http://amgen.bio.com) for information on other career opportunities available at Amgen. Principals only, please.

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**POSITIONS OPEN**

**POPULATION BIOLOGIST**

The Department of Biology at Boston University invites applications for a tenure-track position at the rank of **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** in Population Biology to begin in the fall of 1997, pending administration approval. The successful candidate will be expected to have a strong organismal background and to use molecular techniques to answer questions in social behavior, evolution, and/or conservation biology. Teaching responsibilities include an introductory course in genetics and an upper-level undergraduate or graduate course in area of specialty. Applicants should have a Ph.D. with postdoctoral experience, an active externally funded research program, and a record of excellence in teaching. The successful candidate will complement an active group of faculty and graduate students in the Ecology, Behavior, and Evolution Program, and will have an opportunity to interact with other vital research groups and centers in the department and university.

Interested applicants should send a curriculum vitae, statements of teaching and research interests, copies of three major reprints, and three letters of reference to:

**Thomas H. Kunz, Chair**  
**Population Biology Search Committee**  
 Department of Biology  
 Boston University  
 Boston, MA 02215

Application review will begin on December 1, 1996. Closing date is January 15, 1997. *Boston University is an Equal Opportunity/Affirmative Action Employer.*

**ASSISTANT PROFESSOR POSITIONS  
 MOLECULAR GENETICIST  
 MOLECULAR CELL BIOLOGIST**

The Department of Biology at the College of William and Mary seeks to fill two entry-level **TENURE-TRACK** faculty positions. Applicants for the molecular geneticist position must be highly qualified to teach an upper-level course in molecular genetics with an accompanying laboratory as well as an upper-division course in their area of specialty. Applicants for the molecular cell biologist position must be highly qualified to teach cell biology with an accompanying laboratory as well as an upper-division course in their area of specialty. In addition to a commitment to excellence in teaching, the successful applicants for both positions will be expected to establish a vigorous extramurally funded research program. The University has an enrollment of 7,700 students (5,400 undergraduates) among five schools. The department has 21 faculty and offers training through the Master's level. Preference will be given to applicants with significant postdoctoral experience. Applicants should include a curriculum vitae with a publication list; a statement of teaching and research interests; and the names, addresses, and telephone and FAX numbers of three individuals willing to submit letters of reference upon request. Application materials should be sent to: **Margaret S. Saha, Chair, Search Committee, Department of Biology, College of William and Mary, Williamsburg, VA 23187-8795.** Review of materials will begin January 3, 1997 and will continue until the position is filled. *The College of William and Mary is an Equal Opportunity/Affirmative Action University. Members of under-represented groups including people of color, persons with disabilities, Vietnam veterans and women are encouraged to apply.*

**ACADEMIC ANALYTICAL  
 BIO-INORGANIC CHEMIST**

The School of Science and Health of Philadelphia College of Textiles and Science is accepting applications for a full-time tenure-track teaching position for **ASSISTANT PROFESSOR** of Chemistry beginning September 1997. The position requires a Ph.D. plus excellent undergraduate teaching skills and experience, inclusive of advanced biochemistry and advanced inorganic chemistry. Research expertise, preferably in metalloproteinases, is also required, and at a level that is nationally competitive for extramural grant funding and that can integrate with the School's current and future research programs. The position offers a competitive salary and excellent benefits. Applications reviewed beginning January 15, 1997 until the position fills. Submit a letter of application; curriculum vitae; and the names, addresses, and telephone numbers of three professional references to: **Dr. Richard A. Nigro, Vice President for Academic Affairs, Philadelphia College of Textiles and Science, School House Lane and Henry Avenue, Philadelphia, PA 19144.** *Philadelphia College of Textiles and Science is an Affirmative Action/Equal Opportunity Institution.*

**POSITIONS OPEN**

**UNIVERSITY OF  
 Massachusetts**

**A M H E R S T**

**BIOORGANIC FACULTY POSITION**

Applications are invited for a tenure-track **ASSISTANT PROFESSOR** working at the chemistry/biology interface. Appointment will be in either the Department of Chemistry or the Department of Biochemistry and Molecular Biology, at the discretion of the successful candidate, beginning September 1997 to January 1998. Possible areas of interest include, but are not limited to, RNA catalysis, enzymology, and molecular recognition. Teaching responsibilities will include organic chemistry and special topics courses in the appointee's area of specialization. Please submit a curriculum vitae and statement of research plans, and have three letters of recommendation sent directly to: **Chair, Bioorganic Search, Department of Chemistry, Lederle Graduate Tower A, University of Massachusetts, Box 34510, Amherst, MA 01003-4510.** Evaluation of applications will begin December 1, 1996, and continue until the position is filled. *The University of Massachusetts is an Equal Opportunity/Affirmative Action Employer.*

**ENVIRONMENTAL STUDIES PROGRAM  
 PROVIDENCE COLLEGE**

Providence College, Providence, Rhode Island, is a Roman Catholic four-year liberal arts college conducted under the auspices of the Dominican Friars. The college anticipates expansion of its Environmental Studies Program to include a new, interdisciplinary major in environmental studies. It thereby seeks to fill an **ADJUNCT THREE-YEAR** position for an environmental scientist, beginning September 1997. Teaching expectations include team-teaching an Introduction to Environmental Studies course. This two-semester laboratory course involves an earth systems approach set in a broader cosmological and cultural context. The person filling this position will also be responsible for an upper-division project-based seminar, introduction of a new laboratory course in environmental chemistry, and development of new courses in her or his area of specialization. Normal teaching load is six courses per year. A successful candidate would have expertise in an area such as: atmospheric or environmental chemistry, oceanography, planetary astronomy. Preference will be given to candidates who can demonstrate a cross-disciplinary attitude and facility. The position will remain open until filled, but we will begin screening applications on December 13, 1996. Send curriculum vitae and three letters of reference to: **Dr. Laura Landen, Director, Environmental Studies Program, Providence College, Providence, RI 02918.** *Providence College is an Equal Opportunity/Affirmative Action Employer and especially encourages the applications of women and minorities.*

**FACULTY POSITIONS**

The Department of Biology of Pomona College is extending the period for receipt of applications for three tenure-track, assistant professorships beginning fall 1997 in:

**COMPUTATIONAL MOLECULAR BIOLOGY  
 DEVELOPMENTAL BIOLOGY  
 MOLECULAR EVOLUTION**

Full descriptions are included on page 1942 in the September 27, 1996 issue of *Science*. Since evaluation of files is already underway, applications should be sent as soon as possible to the appropriate search committee and be complete by December 16, 1996. **Department of Biology, Pomona College, Claremont, CA 91711.**

**BIOLOGY: ECOLOGY/ZOOLOGY**

MacMurray College, a private United Methodist liberal arts college, has a **TENURE-TRACK** position commencing fall 1997. Ph.D. required. Expectations: teach in the areas of ecology/environmental biology (including a field component) as well as zoology, vertebrate anatomy, and introductory biology. Application, curriculum vitae, teaching philosophy, graduate transcripts, and three references should be sent by December 6, 1996 to: **Dr. Jim Goulding, Dean of the College, MacMurray College, 447 East College, Jacksonville, IL 62650.** *Affirmative Action/Equal Opportunity Employer.*

**POSITIONS OPEN**

**TWO ASSISTANT PROFESSORSHIPS  
 MOLECULAR/CELLULAR BIOLOGY**

The Department of Biological Sciences, University of Windsor, seeks two **TENURE-TRACK ASSISTANT PROFESSORS** with research and teaching skills in the general area of molecular/cellular biology. This search is part of a coordinated plan to add four new faculty over the next three years. Successful applicants will have research interests that augment the department's capacity to explore cellular and molecular processes regulating growth and development, by bringing particular expertise in one of gene expression, gene regulation, or cell signaling, and interest in developmental biology. Ph.D. degree required; postdoctoral experience strongly preferred. Teaching responsibilities include introductory and advanced courses, and the guidance of B.Sc., M.Sc., and Ph.D. students in research. For further information see our website: [www.cs.uwindsor.ca/units/bio/index.html](http://www.cs.uwindsor.ca/units/bio/index.html), or contact us at [bsoci@uwindsor.ca](mailto:bsoci@uwindsor.ca). Candidates should send a letter of application, a recent curriculum vitae, copies of three publications, and a statement of teaching and research interests, and should arrange for three letters of reference to be forwarded to: **Dr. Peter F. Sale, Head, Department of Biological Sciences, University of Windsor, Windsor, Ontario N9B 3P4 Canada.** Complete applications including letters of reference should be received by 6 January 1997.

*The University of Windsor is committed to equity and diversity in the workplace and welcomes applications from Aboriginal peoples, persons with disabilities, and members of visible minorities. Applications from women are particularly encouraged. In accordance with Canadian immigration standards, this advertisement is directed to Canadian citizens and permanent residents of Canada.*

**ASSISTANT PROFESSOR  
 CORNELL UNIVERSITY**

The Department of Psychology at Cornell University is considering candidates for a **TENURE-TRACK** assistant professorship. The focus is on an individual with strong research and teaching promise in an area of expertise that bridges our department's strengths in social/personality psychology, cognition/perception, and neuroscience/biopsychology. Examples of research specializations of interest include, but are not limited to: cognitive neuroscience; social cognition and behavior; beliefs, attitudes, emotion, or health; evolutionary psychology; higher-order cognition and knowledge representation. Comparative, developmental, or cross-cultural approaches to these areas are all welcome.

The appointment would begin July 1997. Review of applications will begin December 1, 1996. Interested applicants should submit letters of application that include one or more key words indicating their specific area(s) of interest, a curriculum vitae, reprints or preprints of completed research, and letters of recommendation sent directly from three referees to:

**Secretary, Psychology Search Committee**  
 Department of Psychology  
 Uris Hall  
 Cornell University  
 Ithaca, NY 14853-7601, U.S.A.  
 Email: [kas10@cornell.edu](mailto:kas10@cornell.edu)  
 FAX: 607-255-8433; Telephone: 607-255-6364

*Cornell University is an Equal Opportunity/Affirmative Action Employer.*

**FACULTY POSITION IN CANCER RESEARCH**

The Eppley Institute for Research in Cancer, University of Nebraska Medical Center (UNMC), is seeking applicants for a tenure-leading **ASSISTANT/ASSOCIATE PROFESSOR** position. Possible research areas include chromatin structure, cancer genetics, and cell cycle regulation. However, outstanding candidates in all areas of molecular and cellular biology of cancer are encouraged to apply. The 24 members of the Eppley Institute faculty are well-funded and involved in multidisciplinary efforts focused on basic research in cancer. The Eppley Institute is an integral unit in the NCI-designated UNMC/Eppley Cancer Center. In addition to directing an independent research program, the successful applicant is expected to interact with other faculty, and to be involved in the training of graduate students and postdoctoral fellows through the Eppley Institute's NCI-supported Cancer Research Training Program.

Applicants should send their résumé, three reference letters, and a letter detailing their research goals to: **Dr. Raymond Ruddon, Director, Eppley Institute, University of Nebraska Medical Center, 600 South 42nd Street, Omaha, NE 68198-6805.**

*The University of Nebraska Medical Center is an Equal Opportunity/Affirmative Action Employer.*

Cambridge NeuroScience is engaged in the discovery and development of proprietary pharmaceutical products to treat a variety of severe disorders of the nervous system.

As the leader of a small neurophysiology group and a member of interdisciplinary teams engaged in discovering novel therapeutics directed at membrane ion channels, you will use a variety of neurophysiological techniques to characterize the actions of proprietary compounds on voltage- and ligand-gated ion channels. Your skills will also be used to probe the characteristics and behavior of ion channels under conditions used in high-throughput screens and in models of neuropathology used in drug discovery.

A Ph.D. and at least 4 years of postdoctoral experience in neurophysiology and/or membrane biophysics is required, with experience in drug discovery projects highly desirable. A background involving electrophysiological methods emphasizing single-cell and possibly subcellular (e.g. single-channel) methods is expected, with expertise in several of the following techniques desirable: voltage clamp; patch clamp; intracellular recording; extracellular recording; brain-slice recording; nerve conduction recording; and oocyte expression.

Please apply to **Human Resources, Dept. SCI-NSS, Cambridge NeuroScience, Inc., One Kendall Square, Building 700, Cambridge, MA 02139. Fax: (617) 225-0612; Internet address: hr@cambneuro.com**

*We are an equal opportunity employer, M/F/D/V.*

### ASSISTANT PROFESSOR Cell Biology

- Assistant Professor, tenure-track position available in the Fall, 1997. We seek an individual to teach undergraduate course in cell biology, and graduate course in their specialty and participate in general education curriculum for the non-major. Candidate is expected to establish an externally funded research program utilizing cellular and molecular techniques to study cell or developmental biology in prokaryotic or eukaryotic systems. Candidates must be strongly committed to excellence in undergraduate teaching. Applicants should have a Ph.D and postdoctoral or equivalent experience. Postdoctoral or equivalent experience required. Send a letter describing your background, interests, and goals in research and teaching, CV, reprints, and three letters of reference to Dr. Kenneth Kleene, Chair of Search Committee, Biology Department, University of Massachusetts Boston, 100 Morrissey Blvd., Boston, MA 02125-3393. Fax 617-287-6650 or email: kleene@umb.edu. Deadline for applications is December 15, 1996. An Affirmative Action, Equal Opportunity, Title IX employer.

**U Mass Boston**

# Research Scientists



Isis Pharmaceuticals, a dynamic biopharmaceutical company and a leader in antisense technology, has exceptional opportunities for the following individuals at our Carlsbad, CA headquarters. With strong funding and excellent academic ties, Isis offers a superb environment for outstanding professionals.

## Senior Scientist Molecular Pharmacology

We are seeking a Molecular Biologist to help lead a drug discovery effort in molecular pharmacology, focusing on characterizing the consequences of inhibiting expression of various isozymes of key signal transduction proteins. Experience in eukaryotic signal transduction pathways is required; experience in cytokine biology and/or immunology is highly desirable. Candidate should have a Ph.D. or M.D. degree and a minimum of 2 years relevant postdoctoral experience. (Code 223)

## Post Doctoral Fellows Molecular Pharmacology- Signal Transduction

The selected candidate will determine the pharmacological consequences of inhibiting expression of various isozymes of key signal transduction proteins. Experience in the biochemistry and molecular biology of eukaryotic signal transduction pathways or lipid metabolizing enzymes is desired. The candidate should have a Ph.D. or equivalent and 0-3 years of postdoctoral experience. (Code 224)

Isis offers excellent salaries and benefits, including equity participation. We are located in North Coastal San Diego County, an area offering a wide range of recreational advantages, as well as proximity to world-class educational institutions. For consideration, send your resume with cover letter to: Isis Pharmaceuticals, Human Resources, Code (see above), 2292 Faraday Ave., Carlsbad, CA 92008. Principals only. No phone calls please. EOE.



**ISIS PHARMACEUTICALS**



## Dedicated to Science. Focused on Discovery.

At Parke-Davis Pharmaceutical Research Division of Warner-Lambert Company, inspired science and a strategy of innovation has made us a leader in the pharmaceutical industry. Currently, we have several Postdoctoral Fellowships available at our headquarters in Ann Arbor, Michigan.

### POSTDOCTORAL FELLOW Vascular and Cardiac Disease

The selected individual will perform research in the general area of oxidative stress. The candidate will perform studies in cultured arterial cells that are exposed to various stimuli which promote the synthesis of oxidative products from enzyme sources. The selected individual will test and evaluate the end products to promote signal transduction of specific pro-atherogenic genes and compare in vitro studies to excised tissue from normal and atherosclerotic vessels.

The chosen candidate must have a Ph.D. or equivalent. Special attention will be given to those who have worked in a laboratory which has investigated mechanisms of oxidative stress in arterial cells and/or have performed studies to understand the transcriptional regulation of genes upregulated in atherosclerotic lesions. Technical skills include cell culture techniques, PNA isolation and quantitation techniques (northern blots, RNase protection assays), analytical methods for quantitating unstable lipid peroxides and fatty acids. **JOB CODE RB-963218**



### POSTDOCTORAL FELLOW Pharmacokinetics/Drug Metabolism

The selected individual will conduct research that will increase the knowledge and capability to deliver drugs to the Central Nervous System (CNS). The chosen candidate will work with in vitro transport models such as Caco-2 cells, *in situ/in vivo* approaches (such as rat brain perfusion) and analytical techniques [such as HPLC using Immobilized Artificial Membrane (IAM) column packing]. Experiments will require analysis by liquid scintillation counting or reversed-phase HPLC.

The individual will need to develop assays for the drugs and relevant metabolites or breakdown products in buffers and biological matrices, learn and validate the biological transport and HPLC techniques using reference compounds from the literature while working closely with an expert in the area of blood-brain barrier transport. A Ph.D. in Pharmaceutics, Pharmacokinetics, Biological Chemistry or Physiology is required. **JOB CODE CJM-963216**

Members of the Parke-Davis Pharmaceutical Team enjoy competitive salaries and an attractive benefits package including relocation assistance. Interested candidates should send, fax or e-mail a resume, indicating the **JOB CODE** of interest, to: **Parke-Davis Pharmaceutical Research, Human Resources Department, 2800 Plymouth Road, Ann Arbor, MI 48105. Fax: (313)998-3394. E-mail: resume@aa.wl.com.**

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Quality



## St. Jude Children's Research Hospital

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### QUALITY ASSURANCE/ QUALITY COORDINATOR

St. Jude Children's Research Hospital has an immediate opening for a Quality Assurance/Quality Control Coordinator to develop, maintain and implement a Quality Assurance/Quality Control Program. The qualified applicant must institute operating procedures, teach, test and validate these procedures. Must have the ability to teach and train staff members in the effective implementation of QA/QC regulations. Applicant must possess a B.S. degree in biology or related field. Master's degree preferred. 5 years lab experience with knowledge of QA procedures and regulatory affairs. 2 years supervisory experience.

Please submit resumes to: **Human Resources Department, 332 N. Lauderdale, Memphis, TN 38105. Fax: 901-495-3123. AA/EOE**

## Postdoctoral Opportunity Biology & Biotechnology Research Program Molecular and Structural Biology Division

The Molecular Cytogenetics Laboratory of the Mechanisms of Cancer Group has an opening for a qualified Research Staff Member who will have primary responsibility for developing, applying and evaluating new molecular approaches for detecting and quantifying chromosome damage. Related emphases could also include research on DNA repair, individual susceptibility to cancer and applications of analytical instrumentation to problems of molecular cytogenetics. Will also solve problems associated with adverse environmental exposure to humans and/or the development of rodent models for human exposure, interact across multiple teams of scientists and be responsible for developing a strong, independently-funded research program.

This is a two-year appointment with possible conversion to career status pending successful performance. Candidates must have a Ph.D. in Genetics, Molecular Biology, Toxicology or equivalent, with a minimum of two years' postdoctoral experience and a publication record documenting research experience in the areas of molecular biology, cytogenetics, or both.

LLNL offers a challenging work environment and a competitive salary/benefits package. Qualified individuals are invited to send their resume to: Mary Anne Holman, Recruiting and Employment Division, Dept. AJSCBF6MH, Lawrence Livermore National Laboratory, P.O. Box 5510, Livermore, CA 94551-5510. Phone: (510) 422-9972. LLNL is proud to be an Equal Opportunity Employer.

University of California  
 Lawrence Livermore  
National Laboratory

## POSTDOCTORAL FELLOWSHIPS

Two positions, a postdoctoral fellowship and a research associate, are available in the Laboratory of Epithelial Cell Biology of the Nemours Research Programs. The primary focus of the laboratory is the regulation of chloride channel activity in cystic fibrosis. The positions, available immediately, require a PhD in biochemistry or related field and experience with tissue culture. In addition experience with in vivo protein labeling, peptide mapping, mammalian expression systems, or electrophysiology would be helpful. The laboratory is located at the Alfred I. duPont Institute in Wilmington, DE and is part of the Pediatrics Dept. of Thomas Jefferson University. The Institute offers competitive salaries and benefits packages. Send curriculum vitae and names of three references to: **Dr. William Reenstra, Dept. of Clinical Science, Alfred I. duPont Institute, P.O. Box 269, Wilmington, DE 19899.** A.I. duPont Institute is an Equal Opportunity/Affirmative Action Employer.

Alfred I. duPont  
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A CHILDREN'S HOSPITAL

**WHEN SCIENCE AND  
TECHNOLOGY  
COME TOGETHER, ANYTHING IS  
POSSIBLE.  
AND EVERYTHING IS ACHIEVED**

By merging pharmaceutical science with technology, Eli Lilly and Company is creating unprecedented opportunities to better meet the global population's health care needs. While we continue our search for innovative pharmaceuticals, we're also pioneering ways to use technology to improve health care. And achieving all this, is a dedicated team of technical professionals. Their talents and skills in a variety of technical arenas, keep our \$6+ billion company on the cutting edge.

#### **SR. NEUROPHARMACOLOGIST-DIABETES RESEARCH**

We currently are recruiting for a Senior Level Pharmacologist/Endocrinologist to support our research program aimed at discovering new pharmacological therapy for obesity. The Neuropharmacologist would become a member of an extensive research team involving collaborations with other divisions within Lilly and leading academic centers throughout the world. The acceptable candidate would lead a group applying a range of methods to study regulation of appetite, energy metabolism and endocrine status by factors such as peripheral hormones and neuropeptides.

The ideal candidate will have a Ph.D. and 4-8 years of post-doctoral research experience; experience in a wide array of neuroendocrine pharmacological techniques including microinjection into specific nuclei of the brain, neuroanatomical studies using in situ hybridization immunocytochemistry, and autoradiography, feeding behavior studies, energy metabolism; and strong working knowledge of neuropharmacology and the biological basis of obesity. Excellent interpersonal skills to produce results in a highly collaborative team-oriented research environment and leadership potential are required. **Dept.: ADSCMPH11**

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#### **SR. PROSTATIC CANCER CELL BIOLOGIST-CANCER RESEARCH**

The selected individual will establish and conduct an independent research program to develop *in vitro* and *in vivo* models of prostatic cell growth regulation to identify and develop new prostatic cancer therapies. The successful candidate will have a Ph.D. in Tumor Cell Biology/related field with at least three years of relevant postdoctoral experience. We are especially interested in highly motivated individuals with relevant cross-functional expertise who can utilize multiple tools and techniques for the development of innovative therapies. A strong record of scientific publications, superior oral/written communication skills, strong interpersonal skills and computer proficiency are also required. The ability to organize and coordinate projects and to work as a partner in a multidisciplinary research team is essential. Experience in growing primary prostatic epithelial cell cultures from human specimens, gel electrophoresis, cellular metabolism, protein synthesis and secretion and recombinant protein expression are preferred. Proficiency in one or more of the following technical methods is highly desired: immunohistochemistry, DNA/RNA methods, cell transfection, metabolic assays, and establishment of xenograft models. **Dept.: ADSCMPH21**

#### **SR. GENE TARGETING SCIENTIST-TECHNOLOGY CORE RESEARCH**

The Technology Core Research Division of Lilly Research Labs is seeking a highly motivated individual with expertise in gene targeting in embryonic stem cells. This individual will join a team of scientists using genetically engineered mice to determine the function/disease roles of genes and to develop novel animal pharmacology models. The candidate should have a Ph.D. degree in the biological sciences with 3+ years of postdoctoral experience and a strong background in molecular biology and genetic engineering of animals. The applicant will be responsible for setting up a laboratory for conducting whole animal and tissue-specific gene knock-out/in experiments and should have a proven track record of designing homologous recombination vectors and germline transmission of targeted loci. Experience with conditional transgenesis methods such as Cre/lox, tetracycline regulatory systems, etc., is highly desirable. An ability to work in multiple disease research fields and network with other members of our cross-functional genomics team will be essential. **Dept.: ADSCMPH31**

#### **SR. SCIENTISTS-SKELETAL DISEASES**

Several positions are available in this area. Visit the employment section of our internet home page over the coming weeks for specific job descriptions.

We offer an excellent salary and comprehensive benefits. For immediate consideration, please send resume and cover letter to: **Corporate Recruiting, (Dept.-position of interest code), Lilly Corporate Center, Indianapolis, IN 46285.** We are an equal opportunity employer dedicated to diversity and the strength it brings to the workplace.

For other job opportunities, please access our Job Bank at <http://www.lilly.com> or phone our Jobline 1-800-892-9121.

## **COGNITIVE NEUROSCIENCE**

### **McDonnell-Pew Investigator-Initiated Grants**

The McDonnell-Pew Program in Cognitive Neuroscience is accepting proposals from individuals pursuing innovative, multi-disciplinary research investigating the relationship between human cognitive function and the underlying brain mechanisms

Individuals currently receiving support from the McDonnell-Pew Program are not eligible to apply for Investigator-Initiated Grants. Individuals at institutions with McDonnell-Pew Center grants but who do not receive any support from the Center are eligible to submit proposals.

Projects are expected to include input from two or more of the disciplines contributing to cognitive neuroscience: clinical and basic neuroscience, psychology, computer science, linguistics and philosophy. An emphasis on higher cognitive functions is preferred.

The grants provide a maximum of \$35,000/year for up to three years. An institutional overhead of 10% of total salary and fringe benefits may be requested but must be included in the \$35,000/year maximum. The funds may be used to support research, postdoctoral training or to provide seed money for investigators exploring new research directions. Proposals establishing interdisciplinary and/or inter-institutional collaborations are encouraged. Requests for funds to support graduate student thesis research will not be accepted.

**Deadline for receipt of proposals: February 26, 1997.** The awards will be announced in June, 1997.

Further information and application guidelines may be obtained via the Internet: <http://www.jsmf.org> or by contacting:

Susan M. Fitzpatrick Ph.D., Program Officer, McDonnell-Pew Program in Cognitive Neuroscience, James S. McDonnell Foundation, 1034 S. Brentwood Blvd., Suite 1610, St. Louis, MO 63117

E mail: c06819CN@wuvmd.wustl.edu, Telephone:(314)721-1532, Fax:(314)721-7421

We encourage you to use the Internet or email whenever possible



## **THE J. DAVID GLADSTONE INSTITUTES** University of California, San Francisco San Francisco General Hospital



### **POSTDOCTORAL FELLOWSHIP - DR. ROBERT PITAS**

Study the molecular basis for the impact of apolipoprotein E4 on neurite outgrowth and Alzheimer's disease. A combination of *in vitro* studies and studies with transgenic models will be used to examine the mechanism for the contribution of apolipoprotein E4 to Alzheimer's disease. Candidates should possess an M.D. or Ph.D. in neurobiology. Job #C96-017.

### **POSTDOCTORAL FELLOWSHIP - DR. TOM INNERARITY**

Study the mechanism of apo-B mRNA editing. Studies of the mechanism of this process will include *in vitro* analysis combined with physiological investigations using transgenic and gene targeted animals. Candidates should possess a Ph.D. or M.D.; a strong background in biochemistry and molecular biology preferred. Job #C96-037.

Please send CV and list of references, indicating the appropriate job number, to:

**The J. David Gladstone Institutes**  
P.O. Box 419100, San Francisco, CA 94141.

For a listing of other open positions, visit our website:  
<http://gladstone.ucsf.edu/positions.html>

Equal Opportunity/Affirmative Action Employer

# IMMUNOLOGY

Amgen is the world's largest biotechnology company. We currently have career opportunities available for Research Professionals at our expanding facility in **Thousand Oaks, California.**

## RESEARCH ASSOCIATE

The minimum qualifications for this position are a Bachelor or Master's degree in Biology/Biochemistry or related field. Applicant must have 3-6 years' experience in post graduate research. Essential skills required for this position are cell culture and Western Blot techniques. Experience with apoptosis, metastasis and mitogenesis assays, receptor-ligand or receptor cross linking techniques is preferred. Basic molecular biology procedures such as PCR, DNA/RNA preparation, Northern Blot are desired. Qualified applicants must be able to perform experiments in receptor biology/cancer research, record, analyze, and report data. General lab work that involves preparing reagents, maintaining lab equipment and supplies, maintaining precise and clear lab notebooks is a must. Computer proficiency as well as good verbal and written communication skills are essential.

## RESEARCH ASSISTANT

The selected individual will be responsible for the generation and characterization of transgenics to identify new drug candidates and targets. Qualified candidates will have a BS or MS degree in the Life Sciences, 5-10 years' experience generating transgenics and an extensive background in most aspects of Molecular Biology (PCR, cloning, DNA preparation, founder analysis and Northern, Southern and Western Blot analyses). Proficiency in the production of DNA constructs and the management of multiple lines of transgenics are also required. Preference will be given to applicants with experience in the characterization of transgenic phenotypes, genetics or ES cell culture. Your ability to interact with several groups is critical. Excellent verbal and written communication skills are essential.

We offer a highly competitive compensation and benefits package that includes a retirement and savings plan, an on-site fitness center and three weeks' vacation. For immediate consideration, please mail your resume to: **Amgen, Staffing, Job Code: TPSC, P.O. Box 2569, Thousand Oaks, CA 91319-2569.** Principals only, please. **Visit our new web site at: [www.amgen.com](http://www.amgen.com)** for detailed information on other opportunities.

EEO/AA Employer M/F/D/V

**AMGEN®**

## OPPORTUNITIES IN DEVELOPMENT AND DRUG DISCOVERY

At SmithKline Beecham, our commitment to scientific excellence results in products that promote health and well-being throughout the world. Because innovative research is critical to our ability to deliver new healthcare solutions, we are seeking gifted and focused scientists who are dedicated to discovery and development.

### Pharmacokineticist

The Pharmacokinetics Department of Drug Metabolism and Pharmacokinetics has an exciting opportunity for a Research Investigator to provide scientific leadership while designing and analyzing pharmacokinetic studies for compounds in preclinical and clinical development (discovery through launch) with emphasis in the area of protein therapeutics. Responsibilities for this position include writing development plans and technical reports, developing protocols, performing studies and presenting results. A primary consideration will be representing Drug Metabolism and Pharmacokinetics on discovery and development project teams.

The successful candidate will have a Ph.D. and postdoctoral experience with training in Pharmacokinetics or a related discipline, together with expertise in protein biochemistry, enzymology, cell biology or immunology. Interest in hands-on laboratory experimentation including animal studies is essential. Excellent interpersonal and written/oral presentation skills as well as the ability to work in a team environment are equally essential. Previous industrial experience would be advantageous. **Refer to Job Code B6-0507**

### Yeast Geneticists

The Yeast Genetics Group within the Department of Comparative Genetics has challenging opportunities for three molecular geneticists, with particular expertise in the area of yeast genetics. This group is using *Saccharomyces cerevisiae* as a model system to identify, clone, and characterize novel human drug targets, develop high-throughput mechanism-based drug screens, and discover the mechanisms of action of established drugs and lead compounds. The successful candidates will join a multi-disciplinary team of scientists working to define the biological functions of novel human proteins, some of which have been discovered through a collaboration with Human Genome Sciences. The individuals will use classical and recombinant yeast genetics, combined with cross-species comparative genomics, to identify and characterize new genes, and conduct pioneer research aimed at establishing relevance to human disease.

Two positions are for Investigators/Senior Investigators. Qualifications include a Ph.D. in Genetics or a related discipline; 2-3 years of postdoctoral or industrial research experience; and a strong background in recombinant DNA techniques, yeast genetics and protein biochemistry. Bioinformatics experience is preferred. The candidates should possess a proven record of scientific achievement documented in leading scientific journals. SmithKline Beecham scientists are encouraged to publish their research findings.

One position is for an Associate Scientist/Scientist. Minimum qualifications include a B.S. in Genetics or a related discipline with 3-5 years of experience, or an M.S. with 1-3 years of experience, in recombinant DNA technology and protein biochemistry. Experience with yeast genetics and bioinformatics is preferred. **For any of these three positions, refer to Job Code H6-0506.**

Located in our state-of-the-art R&D facility in suburban Philadelphia, SmithKline Beecham offers a competitive compensation/benefits/relocation package. Qualified candidates should send a C.V. plus three references to: SmithKline Beecham Pharmaceuticals, Job Code \_\_\_\_\_, P.O. Box 2645, Bala Cynwyd, PA 19004. For more information on SmithKline Beecham, see our website at <http://www.sb.com>. We are an Equal Opportunity Employer, M/F/D/V.

**SB**

**SmithKline Beecham**  
Pharmaceuticals

Challenging the natural limits.

## DIRECTOR - CENTER FOR BIOTECHNOLOGY

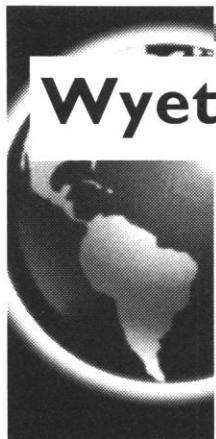
The Center for Biotechnology, a leading NYS Center for Advanced Technology, links the intellectual and physical resources of NY's research institutions to pharmaceutical, biotechnology and biomedical engineering industries. Located on the SUNY Stony Brook campus, the Center is a State-Industry-Academic interdisciplinary collaboration which supports innovative product-oriented research; facilitates creation and incubation of new biotech companies; and enhances technology transfer/licensing opportunities. The Center builds/leverages upon the University's \$100 million/year research enterprise. The Director will also forge new directions for the Center. For more info, check our home-page at <http://life.bio.sunysb.edu/biotech>

**QUALIFICATIONS:** Should be a creative and entrepreneurial leader with outstanding academic/industrial accomplishments. Must hold a doctoral degree in the physical or life sciences, and be eligible for appointment as a tenured Associate or Full Professor. May supervise an active research laboratory. Candidates with recognized excellence in academic/industrial research, product development, technology transfer, and/or senior management in the pharmaceutical or biotechnology industries encouraged to apply.

Send curriculum vitae and the names of 4 references to: Search Committee, c/o Vice President for Research, SUNY Stony Brook, Stony Brook, NY 11794-3365 An AA/EO employer.

**STONY  
BROOK**  
STATE UNIVERSITY OF NEW YORK

Washington University in St. Louis invites applications for the position of Chair of the Department of Biology. The Department's 30 faculty members conduct strong nationally and internationally recognized undergraduate and graduate teaching programs and perform a wide spectrum of research with particular strengths in population biology, plant biology, and developmental biology. Occupying 115,000 sq. ft. of usable teaching and research space, the Department operates within a total yearly budget of over 16 million dollars. The Department, along with basic science departments from the School of Medicine, is a part of the Division of Biology and Biomedical Sciences, an administrative structure fostering interdisciplinary and cross-departmental teaching and research programs. Growth opportunities are envisaged. The Biology Chair position is a full time, tenured position at the rank of full professor. Candidates should hold the Ph.D. degree with a nationally/internationally recognized record in teaching and research and should have demonstrated leadership abilities and administrative skills. Review of applicants will start January 1, 1997. Applicants should submit a complete curriculum vitae, a statement of research interest and educational and administrative philosophy, and the names/addresses of five references to: **Professor Joseph J.H. Ackerman, Biology Chair Search Committee, Campus Box 1134, Washington University, One Brookings Drive, St. Louis, MO 63130-4899 (email address: [biologysrch@wuchem.wustl.edu](mailto:biologysrch@wuchem.wustl.edu)).** Washington University is an Affirmative Action/Equal Opportunity Employer.



# Wyeth-Ayerst Research

This is your opportunity to join Wyeth-Ayerst Research, a major division of Fortune 150 American Home Care Products Corporation, at two of our pharmaceutical research facilities:

## CNS Drug Discovery Princeton, New Jersey

We are seeking scientists with a B.A./B.S. degree in neuroscience, pharmacology, biology, or related life sciences discipline and 5-10 years relevant experience, or an M.S. degree with 4-6 years related laboratory experience. Candidates should be PC proficient and familiar with computer-assisted data analysis and have excellent oral and written communication skills and the ability to work within a team environment.

## Neuropharmacologist

Selected scientists will perform in vitro and/or in vivo experimental studies emphasizing multi-disciplinary approaches to CNS drug discovery in the area of psychotherapeutics. In addition to the above requirements, candidates will possess a background in one or more of the following areas: receptor binding, second messenger system assays, and/or methodology involving the measurement of neurochemical parameters. A working knowledge of molecular biology and the application of these techniques to pharmacological studies would be beneficial. Experience with cell/tissue culture techniques, stereotaxic techniques, and/or in vivo physiological and pharmacological assays is desirable. **Position #OPSCI-2277/1744**

## Behavioral Neuroscientist

The selected scientist will use behavioral screening models, including operant procedures, to evaluate the effects of drugs or antisense oligonucleotides, and novel behavioral models, including those resulting from transgenic manipulations. You will also verify antisense treatments using in situ hybridization and/or immunohistochemical techniques. In addition to the above requirements, candidates will have several years of basic laboratory experience in behavioral neuroscience procedures. Expertise with stereotaxic techniques, histological verification, and immunohistochemistry is desired.

**Position #OPSCI-2076**

## Protein Purification/Characterization Radnor, Pennsylvania

### Research Scientist, Ph.D.

This opportunity requires a scientist with advanced team skills and excellent communication/interpersonal skills to interact effectively with key personnel in several Discovery divisions. The selected Biochemist will work within a multi-disciplinary Core Biotechnology group performing large scale purification of recombinant proteins for high-throughput screening and 3-D structure determination. Responsibilities include rigorous characterization of recombinant proteins and development of new methods for isolation and assay.

Requirements include a Ph.D. in biochemistry or related discipline with 3-5 years experience in modern methods of protein isolation (HPLC, FPLC, electrophoretic techniques), and in the characterization of recombinant proteins (electrophoresis, immunoassay, chromatography). Additional skills in characterization of proteins by capillary electrophoresis, etc. are desirable, as well as expertise in protein refolding and protein-protein interactions. Some knowledge of genetic engineering would be helpful to work closely with molecular biologists to maximize protein expression. **Position #OPSCI-2228**

Wyeth-Ayerst offers an excellent compensation and benefits package in a highly professional environment. Please send your resume with salary requirements with Position # to: **Wyeth-Ayerst Research, Human Resources Dept., P.O. Box 7886, Philadelphia, PA 19101-7886, or fax your resume (in fine mode if possible) directly into our centralized Research resume database at (610) 989-4854. e-mail:**

**[jobs@RAMAIL1.wyeth.com](mailto:jobs@RAMAIL1.wyeth.com) (ASCII format, no attachments, subject: resume). Principals Only.**  
Equal Opportunity Employer, M/F/D/V.

**WYETH  
AYERST**



**Westminster College**  
**New Wilmington, Pennsylvania**  
**Assistant Professor**  
**Environmental Scientist/  
 Microbial Ecologist**

The Biology Department at Westminster College seeks an Environmental Scientist/Microbial Ecologist for a tenure track position at the Assistant Professor level starting in the Fall of 1997. The successful candidate will become the seventh full-time faculty member in Biology and is expected to teach Introduction to Environmental Science, Microbiology, Problem Analysis in Environmental Science, and a field course in the person's area of specialization. Applicants should have a Ph.D., be able to establish research projects involving undergraduate students, and be committed to high quality experiential teaching.

Westminster College is a 144-year-old, co-educational, liberal arts institution with historical ties to the Presbyterian Church. With a yearly enrollment of 1400, the College is located in a beautiful rural setting with proximity to both Pittsburgh and Cleveland. The Biology Department is located in a new science building with excellent teaching, research, and computing facilities. Additional facilities include a 40-acre Outdoor Laboratory, College Woods, and a 12-acre lake close to the campus.

Applicants should provide a cover letter indicating teaching philosophy and experience, research interest, curriculum vitae, and three letters of recommendation by December 30, 1996, to:

**Dr. Monika Becker**  
**Westminster College**  
**Department of Biology**  
**New Wilmington, PA 16172**  
*Westminster College is an Affirmative Action/  
 Equal Opportunity employer.*

Alexion Pharmaceuticals, Inc. is an innovative and dynamic biopharmaceutical company engaged in the discovery, development, and commercialization of novel immunotherapeutics targeting inflammation, autoimmune disorders, and transplantation. We currently have the following positions open:

**SENIOR SCIENTIST/POSTDOCTORAL - Molecular Immunology**

- **Senior Scientist:** Alexion Pharmaceuticals, Inc. seeks a Senior Staff Scientist with extensive training in both Molecular Biology and Immunology. The successful candidate should possess a Ph.D. and/or M.D., be team oriented, and have an interest in the discovery and development of novel immunotherapeutics. Preference will be given to candidates who have demonstrated an expertise in either inflammation, autoimmune disease, and/or transplantation where molecular, biochemical, and/or structural biological approaches have been applied. **Response Code: SSMI**
- **Postdoctoral Position:** The successful candidate will possess a Ph.D. and/or M.D. and will be appointed as a postdoctoral fellow for a period of two years. The fellow will have the opportunity to conduct novel, publishable research and to present his or her findings at national and international conferences. The successful candidate will have an interest in inflammation, autoimmune disease, and/or transplantation. **Response Code: PD**

**RESEARCH ASSOCIATE - High Throughput Screening**

- **BS/MS:** Alexion is looking for an individual with experience in conducting ELISA, cell-based assays, and/or enzyme assays for our new HTS lab. A strong familiarity with instrumentation, robotic-based liquid handling, and informatics is preferred but not required. A degree in a related field (bioengineering preferred) and some work experience in a screening lab is required. **Response Code: HTS**

We offer a competitive salary and benefits package, relocation assistance, and a stock option plan. Please send your resume and the names of three references, and indicate the position of interest by response code to:

**Human Resources**  
**Alexion Pharmaceuticals, Inc.**  
**25 Science Park**  
**New Haven, CT 06511**  
*Equal Opportunity Employer*



**DIRECTOR**  
**Coriell Cell Repositories**  
**Coriell Institute for Medical Research**

The Coriell Institute is a basic biomedical research institute founded in 1953 to conduct fundamental investigations in the normal and abnormal functions of cells and has developed with support from the NIH and other outstanding funding agencies a repository of cells and tissues from patients with genetic diseases. This collection represents the world's largest collection of human cells for use in research.

The Coriell Institute is seeking as candidates for **DIRECTOR** of the Cell Repositories outstanding M.D. or Ph.D. scientists with at least ten years of research experience in genetics and/or cell biology, including a background in molecular biology and cell culture, excellent communications skills, and demonstrated supervisory experience. Responsibilities will include supervising cellular and molecular biology and cytogenetics laboratories headed by doctoral level scientists, developing and documenting an ISO 9000 program for the cell culture laboratories, and overseeing the development of a new computer system for the management of the cell repositories' database.

An appointment is expected to be made on or before January 1, 1997. Applications must be received before November 30, 1996 to be considered. An excellent package of benefits is provided. Salary is negotiable. Send applications and three letters of reference to: **Director of Human Resources, 401 Haddon Avenue, Camden, NJ 08103.** *Coriell is an Affirmative Action/Equal Opportunity Employer.*

**PENNSSTATE**



**ASSOCIATE/FULL PROFESSOR**  
**Plant Developmental Biology**  
**The Pennsylvania State University**

The Department of Biology invites applications for a tenured senior faculty position in plant developmental biology. The Pennsylvania State University has made a commitment to expanding research and education in the biological sciences through a new, university-wide Life Sciences Consortium (see <http://www.lsc.psu.edu>), which is co-funding the position. Penn State currently has three NSF funded training grants in plant biology. We are seeking an imaginative and interactive colleague who uses molecular genetic tools to research fundamental problems in plant development. The applicant should submit a curriculum vitae including publications, grant support, and teaching experience, and a brief statement of research interests (three pages or less). Materials should be sent to: **Plant Developmental Biology Search Committee, Department of Biology, 208 Mueller Laboratory, The Pennsylvania State University, University Park, PA 16802.** Review of applications will commence immediately. For additional information, contact **Dr. Sarah M. Assmann, Search Committee Chair, E-mail: sma3@psu.edu.** *An Affirmative Action/Equal Opportunity Employer. Women and Minorities Encouraged to Apply.*

The Department of Biology at the University of St. Thomas in St. Paul, MN seeks broadly trained biologists as applicants for two full-time positions at the Assistant Professor level. 1) A limited term position to teach: microbiology with lab; an issues-oriented, non-majors introductory biology course with lab; and part of an interdisciplinary science education course. 2) A one-year visiting position to teach: two majors' introductory courses (and labs) covering organismal structure and function, transmission and population genetics, evolution, and population ecology; a non-majors course in Conservation Biology. Candidates must have a doctoral degree, post-doctoral teaching and/or research experience, and a strong commitment to undergraduate teaching in a liberal arts setting. Please send a letter of application describing your qualifications for the position, a curriculum vitae, separate one-page statements of teaching philosophy and research interests, and three letters of recommendation by **Dec. 30, 1996 to: Ms. Carol Felton, Mail # 5031, University of St. Thomas, 2115 Summit Ave., St. Paul, MN 55105.**

*The University of St. Thomas is a private, Catholic, urban, coeducational university dedicated to the total development of the student. The University is an equal opportunity employer and is committed to a program of affirmative action. Women and persons of color are strongly encouraged to apply.*



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

ALSAC • Danny Thomas, Founder

## FELLOWSHIP IN CANCER RESEARCH

St. Jude Children's Research Hospital, a premier research center for pediatric oncology and biomedical research in catastrophic diseases in children, is accepting applications for the *Karnofsky Memorial Fellowship in Cancer Research*. This award is available to investigators who are beyond the junior level of accomplishment and would like to gain further experience in one of the laboratory research specialties at our institution. Research laboratories include biochemistry, developmental neurobiology, experimental oncology, genetics, experimental hematology, immunology, molecular pharmacology, tumor cell biology and virology/molecular biology. Additional opportunities are also available in the clinical sciences including infectious diseases, hematology/oncology, pharmaceutical sciences, pathology and laboratory medicine, radiation oncology, and diagnostic imaging. Interdisciplinary efforts in cell and gene therapy and herpes viruses pathogenesis have been initiated.

These awards are given for up to three years and are based on merit, recommendation and the promise of a productive career in biomedical research. Stipends are highly competitive. Applicants should provide a curriculum vitae, including a brief description of their research interests and have three references. These applications should be sent prior to **January 15, 1997**, with the award notification by February 15, 1997, to the following:

**Christian C. Patrick, M.D., Ph.D.**  
Director of Academic Programs  
St. Jude Children's Research Hospital  
332 N. Lauderdale  
Memphis, TN 38105  
Ph: 901-495-2755  
Fax: 901-525-2720

*St. Jude Children's Research Hospital is an  
Equal Opportunity, Affirmative Action Employer.*

## POSTDOCTORAL FELLOWSHIPS IN MOLECULAR AND CELL BIOLOGY AT THE NIH

Postdoctoral Fellowships are available in the Genetics and Biochemistry Branch, NIDDK, NIH. The Branch is similar to a small academic department and has excellent laboratory facilities. The intramural program of the NIH offers an outstanding research environment. The Branch is located on the main intramural campus of the NIH in Bethesda, Maryland, a 20 minute ride from Washington, D.C. Applications are invited from individuals of the highest caliber with Ph.D., M.D., or M.D., Ph.D. degrees awarded within the last five years. Physicians may participate in either the NIH Interinstitute Endocrine or the NIH Interinstitute Medical Genetics Training Programs. Current research interests of the staff with positions available include:

- The targeting of proteins to the secretory pathway in both eukaryotes and prokaryotes is being studied using a combination of biochemical and genetic approaches. Current projects focus on the mechanisms of signal sequence recognition, the regulation of protein targeting GTPases, and the function of a prokaryotic homolog of the signal recognition particle (SRP). (**Harris Bernstein**)
- Biochemistry and molecular biology of homologous recombination in eukaryotes and prokaryotes, the structure and function of novel triplex DNAs, new methods for gene mapping and cloning (e.g., RARE) and gene targeting in mammalian cells, gene rearrangements in eukaryotes and novel approaches to gene therapy (including the use of small molecules that promote gene targeting, such as miniRecAs). (**Dan Camerini-Otero**)
- Identification of DNA rearrangements in malignant and pre-malignant conditions involving the gastrointestinal tract. Technical emphasis is placed on using novel RecA-assisted sequence-specific mapping and cloning reactions developed in this laboratory, as well as using automated sequencing and robotic equipment and the emerging data base from the Human Genome Project. (**Lance Ferrin**)
- Our lab focuses on DNA repair and recombination. We are interested in a mechanistic understanding of how MutS and MutL mismatch repair enzymes contribute to maintenance of genome stability. We are using molecular biology and biochemical approaches to identify structural elements involved in protein-DNA and protein-protein interactions. We are also characterizing branch migration of DNA Holliday junctions, a key intermediate in genetic recombination. (**Peggy Hsieh**)
- Molecular basis of mechanisms involved in hormonal and developmental control of gene expression. The immediate focus is on the transacting factors of the steroid/thyroid hormone receptor gene superfamily. Present work involves homologous recombination to target genes of regulatory nuclear proteins. (**Vera Nikodem**)
- The role(s) of small nucleolar ribonucleoprotein particles (snoRNPs) in pre-rRNA processing in vertebrate and invertebrate model systems is being examined using molecular and biochemical approaches. Current work focuses on the interactions between pre-rRNA and both the RNA and protein components of the snoRNPs to learn more about the mechanisms by which the snoRNPs affect pre-rRNA processing and ribosome assembly. (**Brenda Peculis**)
- Current projects involve gene targeting to generate mouse models of human diseases, development of gene and protein-based therapies for treatment of neurodegenerative disorders, and the study of ganglioside function in the nervous system and during development. (**Rick Proia**)
- The functional role of a family of neural-specific transcription factors, class III POU domain genes, is being investigated using a combination of molecular and embryological approaches in vertebrate embryos. The regulation of these POU domain genes by growth factors during gastrulation and neurulation is also under investigation. (**Sheryl Sato**)

Interested candidates should send a letter to the relevant branch member stating their interests, their curriculum vitae and list of publications, and the names and addresses of three references at:

**GENETICS AND BIOCHEMISTRY BRANCH  
NATIONAL INSTITUTES OF HEALTH  
Building 10, Room 9D-20, 10 CENTER DR MSC 1810  
BETHESDA, MD 20892-1810  
Telephone: 301-496-2710**

## SENIOR RESEARCH SCIENTIST

The Center for Research on Women and Gender  
The University of Illinois at Chicago

As part of our commitment to strengthening CRWG over the next five years, we are looking for an active researcher interested in bringing a major research program to UIC. CRWG was established in 1991 with goals of: 1) stimulating research on women and on gender; 2) disseminating new scholarship on women and on gender; 3) evaluating policy and examining policy issues; and 4) building alliances with organizations supportive of research on women and gender. The Center fosters research that is collaborative and interdisciplinary in the areas of work, health, and culture. CRWG has working relationships with a large number of community organizations and encourages research containing a community component. Some current CRWG projects are: health of midlife and older women; women in higher education; girls and women in science; sexual harassment in health care settings; violence against women; women and disability; *The Historical Encyclopedia of Chicago Women*. The University of Illinois at Chicago is the largest public research institution in the Chicago area. UIC has a long-distinguished Women's Studies Program and other related programs designed to assist women on campus and to encourage scholarship in women's research.

A Ph.D. or appropriate terminal degree is required along with an excellent research history and strong funding history. Tenure and departmental affiliation can be negotiated. The researcher will be expected to begin during the 1997-1998 academic year.

For fullest consideration, submit a letter describing your research program, curriculum vitae (including funding history), and a list of references by February 1, 1997. For further information contact Alice J. Dan, Ph.D., or Mary Lynn Dietsche, (312)-413-1924.

The Center for Research on Women and Gender (m/c 980)  
1640 W. Roosevelt Road, Fifth Floor  
Chicago, Illinois 60608-6902

*The University of Illinois at Chicago is an Affirmative Action/  
Equal Opportunity Employer.*



## PPL Therapeutics

### Molecular Biologist - Stem Cell Research Group

PPL Therapeutics is a rapidly growing international biotechnology company at the forefront of developing transgenic technology leading to the production of therapeutic proteins in the milk of livestock. It is presently engaged in an advanced and successful stem cell program and seeks the addition of an experienced molecular biologist. The molecular biologist will be expected to develop and lead a team devoted to genetic manipulation of livestock stem cells. The successful applicant will have at least three years of postdoctoral experience in gene construction, transformation, and expression in eukaryotic cells.

PPL can offer a stimulating environment in a rapidly developing field of new technology. The company is located in pleasant rural surroundings at the Virginia Tech Corporate Research Center and will provide an attractive remuneration package commensurate with experience.

If you have the relevant experience and wish to be considered for the above position, please write with full resume including the names and addresses of two references and your current salary to:

J.D. Cooper, Ph.D.

General Manager

PPL Therapeutics Inc.

1700 Kraft Drive

Virginia Tech Corporate Research Center

Blacksburg, VA 24060

Ref PPL/

## HERPETOLOGIST

Department of Organismic and  
Evolutionary Biology  
HARVARD UNIVERSITY

The Department seeks a broadly based herpetologist whose work addresses the organismic and evolutionary biology of amphibians and/or reptiles. The appointment will be to a tenured professorship, and the incumbent will be expected to assume curatorial responsibility of the herpetological collection in the Museum of Comparative Zoology. We are especially interested in individuals with a productive record of high quality comparative research that is systematic, morphological, or developmental in approach, and who have demonstrated interest and ability in teaching at the undergraduate and graduate levels. Applicants should submit by December 31, 1996, a curriculum vitae, a statement of research and teaching interests, and the names and addresses of three references to:

Professor Karel F. Liem  
Chairman, Herpetology  
Search Committee  
Department of Organismic and  
Evolutionary Biology  
Harvard University  
26 Oxford Street  
Cambridge, MA 02138

*Harvard University is an Affirmative Action/Equal Opportunity Employer. We encourage applications from women and minority individuals.*

Assistant Research Scientist  
College of Medicine, Department of  
Internal Medicine  
Gene Therapy Vector Core  
The University of Iowa

The Department of Internal Medicine, Gene Therapy Vector Core, is seeking an Assistant Research Scientist to perform research in gene transfer within the Gene Transfer Vector Core. Will be responsible for identifying and modifying the problems to be studied, and developing novel approaches to overcome problems in gene transfer.

The academic knowledge of a discipline that is generally associated with a Doctoral degree, or an equivalent combination of education and experience, is required. In addition, the ability to plan and execute a research study through some progressively responsible independent research work is required.

Considerable experience (3-5 years) in recombinant DNA techniques, tissue culture, and training in gene transfer techniques is desirable.

Please send resume with the names of three references and cover letter indicating #39038 to: Dr. Beverly Davidson, Ph.D., Assistant Professor, Director, Vector Core, Department of Internal Medicine, The University of Iowa College of Medicine, 200 EMRB, 200 Hawkins Drive, Iowa City, Iowa 52242.

*The University of Iowa is an Equal Opportunity and Affirmative Action employer. Women and minorities are strongly encouraged to apply.*

Tenure-Track Faculty Positions in  
Neurobiology  
The Department of Anatomy and  
Neurobiology

has relocated to new quarters that include core laboratories in molecular biology, tissue culture, neuroanatomy, imaging, neurosurgery, and neurophysiology, and is recruiting additional faculty in neurobiology.

Successful candidates will have the Ph.D. or equivalent, evidence of productivity, and the potential for independent research capable of attracting extramural funding. Investigators using contemporary molecular and cellular approaches to analyze the role of signaling mechanisms during development and/or functional organization of the nervous system are especially encouraged to apply. We are particularly interested in candidates whose research interests complement our existing strengths and who can establish collaborative research programs.

Salary and start-up package are competitive. Faculty participate for 3-5 weeks in the team taught course "Structure and Development" in the medical school curriculum. Graduate teaching is encouraged and departmental faculty are members of the new interdisciplinary Neuroscience Program.

For best consideration, applications should be received before 1 February 1997. Candidates should submit a detailed curriculum vitae, a brief statement of research achievements and goals, and the names and addresses of three to five references to:

Dr. Frank L. Margolis, Chair, Faculty Search Committee, Department of Anatomy and Neurobiology, University of Maryland School of Medicine, 685 West Baltimore Street, Baltimore, MD 21201

*We are eager to diversify our faculty. Women and minorities are encouraged to apply. The University of Maryland is an AA/EEO/ADA employer.*

# NIH Has A New Address.

The National Institutes of Health has introduced a new web site. Now, the latest news about clinical and research training opportunities at NIH can be accessed by visiting us at <http://helix.nih.gov:8001/oe/>

At the site, you can quickly obtain information regarding clinical and postdoctoral training. Review the NIH tenure-track openings. Take a look at the NIH Postdoctoral Research Fellowship Opportunities Catalog which chronicles research being conducted in all NIH laboratories. You can even apply electronically for positions.

All from the convenience of your keyboard.

Plus, the web site links to all NIH institute and laboratory home pages, provides a calendar of events, and offers links to many other areas.

We used to ask you to call us or send your *curriculum vitae*. Now, the best way to find out about world class opportunities at NIH is through the world wide web.



## National Institutes Of Health

Office Of Education

<http://helix.nih.gov:8001/oe/>

The NIH is an Equal Opportunity Employer



### FACULTY POSITIONS Central Institute for the Deaf Sensory Neuroscience

The Research Department at the Central Institute for the Deaf is seeking three new faculty members with a record of excellence in research emphasizing molecular and cellular approaches to degeneration, rescue, and repair, with a focus on the auditory system preferred. Candidates are invited to apply for positions at all levels: **Assistant, Associate, and/or Full Research Scientists**. CID is a major research and education center founded in 1914 to address the needs of the hearing impaired. We are an affiliate of Washington University Medical Center; joint appointments are encouraged. Required qualifications: earned doctorate (Ph.D. or equivalent degree); minimum of three years of postdoctoral training; publication record in peer-reviewed journals; and evidence of scholarly activity at level of proposed rank. Multidisciplinary research a plus. The successful candidate will be expected to develop a program of externally funded research. Opportunities are available for teaching and/or clinical responsibilities depending on personal interests and training. Salary and rank will be commensurate with qualifications and experience. For fullest consideration, applications should be received by Dec. 20, 1996. Submit statement of research interests, curriculum vitae, and names and addresses of three references to:

Judith Mosinger Ogilvie, Ph.D.  
Neuroscience Search Committee  
Central Institute for the Deaf  
818 South Euclid Avenue  
St. Louis, MO 63110  
FAX: 314-977-0030  
EOE/M/F/H/V.

### TENURE-TRACK OR TENURED POSITION FOR A DEVELOPMENTAL BIOLOGIST AT THE NATIONAL INSTITUTE OF ENVIRONMENTAL HEALTH SCIENCES NATIONAL INSTITUTES OF HEALTH

A position is available for a Developmental Biologist to establish an independent basic research program and to form a research group in the Laboratory of Reproductive and Developmental Toxicology, Division of Intramural Research. Applications are invited from scientists with demonstrated ability for creative and productive research in cellular and molecular mechanisms of mammalian development. Of particular interest are investigators using rodent models to study cell interactions, imprinting and other basic biomedical problems relating to the impact of the environment on development. The successful candidate will interact with investigators studying diverse problems in reproductive biology, developmental toxicology, hormone mechanisms, signal transduction, cell cycle regulation, cell growth and differentiation, apoptosis, gene regulation, mutagenesis and DNA repair, and cancer biology.

The position is available to citizens or permanent residents of the United States. Minimum qualifications are a doctoral degree in the biomedical sciences, three years of postdoctoral experience, and publications in quality journals. Salary will be commensurate with the experience and qualifications of the candidate. Applications from women or members of minority groups are particularly welcome. Potential candidates should provide a curriculum vitae and bibliography, a 2-5 page statement of current research interests and goals, and arrange for three letters of recommendation to be sent **before 3 January 1997** to:

Ms. LISA ROGERS

HUMAN RESOURCE MANAGEMENT BRANCH (HNV96-23)  
NATIONAL INSTITUTE OF ENVIRONMENTAL HEALTH SCIENCES  
NATIONAL INSTITUTES OF HEALTH  
P. O. Box 12233, RESEARCH TRIANGLE PARK, NC 27709  
(919) 541-7513

e-mail: [rogers2@niehs.nih.gov](mailto:rogers2@niehs.nih.gov)



NIEHS/NIH is an Equal Opportunity Employer

**POSITIONS OPEN**

**HUMBOLDT STATE UNIVERSITY**  
Department of Biological Sciences  
Two Positions: Anatomy and Entomology

**TENURE-TRACK FACULTY** positions starting August 1997. **Anatomy:** Requires Ph.D. in zoology or biology, with emphasis in evolutionary and functional morphology of vertebrates. Primary responsibilities will be to teach courses in human anatomy to undergraduates in nursing and physical education, an upper-division course in comparative vertebrate anatomy, and general zoology to majors. **Entomology:** Requires Ph.D. in the biological sciences with an emphasis in entomology. Primary responsibilities will be to teach courses in entomology, forest entomology, and general zoology. Both: Other duties will include advising undergraduates and Master's students and serving on faculty committees. Research is expected. Send résumé, three letters of recommendation, and academic transcripts to: **Anatomy Search Committee or Entomology Search Committee, Department of Biological Sciences, Humboldt State University, Arcata, CA 95521. Telephone: 707-826-3245; FAX: 707-826-3201.** Completed application materials must be postmarked by January 3, 1997. *Equal Opportunity/Affirmative Action Employer. Women, persons with disabilities, and minorities are encouraged to apply.*

**MICROBIOLOGY/MICROBIAL ECOLOGY**

Saint Vincent College invites applications for a tenure-track, **ASSISTANT PROFESSOR** level position beginning in the fall of 1997. Requirements include a Ph.D. and teaching or postdoctoral experience. Teaching responsibilities will include courses with labs in microbiology and the candidate's area of expertise as well as courses for non-science majors. Supervision of senior research projects (required of all biology majors) and participation in team-taught general biology are also expected. Preference will be given to candidates qualified to teach geology for non-science majors.

Saint Vincent College is a Catholic, Benedictine, liberal arts institution that serves 1200 undergraduates. The Biology Department consists of five faculty and 100 students and emphasizes preparation for graduate and professional school studies.

Please submit a curriculum vitae, three letters of recommendation, undergraduate and graduate transcripts, and a statement of teaching and research interests by December 20, 1996 to: **Director of Personnel, Saint Vincent College, 300 Fraser Purchase Road, Latrobe, PA 15650-2690.**

*Equal Opportunity/Affirmative Action Employer.*

**NEURAL CIRCUITS**  
**UNIVERSITY OF PITTSBURGH**

Applications are invited for a **TENURE-TRACK** faculty position at the Assistant Professor rank in the Department of Neurobiology. The successful candidate will conduct a competitive, independent research program investigating cellular mechanisms of synaptic integration in thalamic and/or cortical circuits. Applicants should have expertise in biophysical approaches *in vitro*, preferably combined with structural and/or computational methods. The position requires a Ph.D. and/or M.D. with at least two years of postdoctoral experience. Competitive salary support and start-up funds will be provided. Applicants should submit by January 31, 1997, a curriculum vitae, a detailed description of future research goals, representative publications, and names and addresses of three references to: **Dr. Pat Levitt, Chair, C/O Circuit Search Committee, Department of Neurobiology, University of Pittsburgh School of Medicine, E1440 Biomedical Science Tower, Pittsburgh, PA 15261.**

*The University of Pittsburgh is an Equal Opportunity Employer.*

**ASSISTANT PROFESSOR OF BIOLOGY**

The Department of Biology at Vanderbilt University invites applications for a **TENURE-TRACK** position at the level of Assistant Professor. The successful candidate will be expected to develop a strong externally funded research program studying the cell or developmental biology of plants or animals. Teaching responsibilities will complement the needs of the department, and will include a course in the candidate's area of specialization. Applicants should submit a curriculum vitae and a description of research interests and arrange to have three letters of recommendation sent by December 31, 1996 to: **Cell Biology Search Committee, Department of Biology, Box 1812-B, Vanderbilt University, Nashville, TN 37235.** *Vanderbilt University is an Equal Opportunity/Affirmative Action Employer.*

**POSITIONS OPEN**

**ASSISTANT PROFESSOR/100%**  
**University of Wisconsin-La Crosse**

Applicants must have a strong commitment to undergraduate education. The successful candidate will be expected to teach an introductory immunology course for microbiology, biology, and pre-professional students. In addition, he or she may also participate in an introductory microbiology course and a graduate-level Advanced Immunology course in the Master of Science in Biology-Clinical Microbiology program and develop a course in area of expertise. The successful candidate will be expected to develop an externally funded research program and direct undergraduate and graduate (M.S.) research. A Ph.D. with an emphasis in immunology required; experience in clinical and/or infectious disease immunology preferred. Salary \$40,000 to \$45,000 for academic year. Start date August 25, 1997. Send curriculum vitae, statement of teaching philosophy, research interest, graduate and undergraduate transcripts, and three letters of recommendation to: **Dr. James E. Parry, Chair, Department of Biology and Microbiology, University of Wisconsin-La Crosse, La Crosse, WI 54601.** Applications must be received by January 1, 1997. *The University of Wisconsin-La Crosse is an Affirmative Action/Equal Opportunity Employer. Women and minorities are strongly encouraged to apply.*

Canisius College has two tenure-track openings at the **ASSISTANT PROFESSOR** level. **Ecology:** The candidate will contribute to both our pre-professional and environmental biology curricula by offering electives in ecology, and will teach general biology, taking primary responsibility for the ecology and evolution sections. In addition, this person will serve as Program Coordinator for a new major in environmental science. The area of expertise is open; however, the candidate will complement, not duplicate, the expertise of existing faculty, which include an environmental toxicologist, microbiologist, and animal behaviorist. The development of a field-based research program involving undergraduates is expected.

**Physiology/endocrinology:** The area of expertise is open; however, the candidate will complement, not duplicate, the expertise of existing faculty, which include an environmental physiologist, developmental neurobiologist, immunologist, and plant biochemist. The candidate should be able to teach general biology, and upper-level courses in physiology and endocrinology. The development of a research program involving undergraduates is expected.

For both positions, submit curriculum vitae, transcripts, teaching philosophy, research plan, and the names of three references to: **Dr. Paula Dehn, Chair, Biology Department, Canisius College, 2001 Main Street, Buffalo, NY 14208,** by December 18, 1996. For additional information, Email: [Dehn@wehle.canisius.edu](mailto:Dehn@wehle.canisius.edu); Telephone: 716-888-2550.

**DIRECTOR**

**Department of Cell Biology and Anatomy**

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

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

**William S. Agnew, Ph.D.**  
**Chairman, Cell Biology and**  
**Anatomy Search Committee**

**Johns Hopkins University School of Medicine**  
**720 Rutland Avenue, SOM 100**  
**Baltimore, MD 21205-2196**

*An Affirmative Action/Equal Opportunity Employer.*

**VICE-CHAIRPERSON FOR RESEARCH**  
**DEPARTMENT OF ANESTHESIA**

The Department of Anesthesia at Robert Wood Johnson Medical School of the University of Medicine and Dentistry of New Jersey seeks a qualified individual to assume the duties of Vice-Chairperson for Research. The successful candidate must be an outstanding scientist; possess either a Ph.D., M.D., or equivalent degree; possess leadership skills; and have a continuing record of peer-reviewed grant funding, significant scientific accomplishment, and administrative skills. If interested, please send your curriculum vitae to: **Sanford L. Klein, D.D.S., M.D., Professor and Chairman, Department of Anesthesia, 125 Paterson Street, Suite 3100, New Brunswick, NJ 08901-1977.** *An Equal Opportunity/Affirmative Action Employer.*

**POSITIONS OPEN**

**BIOTECHNOLOGIST/INDUSTRIAL**  
**MICROBIOLOGIST**

**ASSISTANT PROFESSOR**, tenure-track position in biotechnology/industrial microbiology; September 1997. Salary \$37,140 to \$46,812. Ph.D. required. Responsibilities include teaching biotechnology/industrial microbiology and introductory microbiology; student advising; directing student's undergraduate and Master's research; and participation in the Biotechnology Program and Environmental Biotechnology Institute. Strong background in natural product discovery, genetics of industrially important microorganisms, or molecular biology in industrial processes desired.

The Biological Sciences Department offers the B.S. degree in biological sciences, ecology and systematic biology, and microbiology; and M.S. degree in biological sciences.

Send letter of interest and curriculum vitae to: **Dr. V. L. Holland, Chair, Biological Sciences Department, California Polytechnic State University, San Luis Obispo, CA 93047.** Refer to Recruitment Code 73032. Deadline is January 15, 1997.

*Cal Poly is strongly committed to achieving excellence through cultural diversity. The university actively encourages applications and nominations of women, persons of color, applicants with disabilities, and members of other underrepresented groups. Affirmative Action/Equal Employment Opportunity.*

**ASSISTANT PROFESSOR**

**Department of Anesthesia and Critical Care**  
**University of Chicago**

We are seeking an individual at the level of **ASSISTANT PROFESSOR** whose expertise will complement the research efforts of five other basic science investigators in our Program in Neurobiology. This position will commence July 1997. The qualified candidate will have a Ph.D. in pharmacology, physiology, neuroscience, or molecular biology; at least three years of postdoctoral training; and an active interest in elucidating the mechanisms of excitatory and inhibitory amino acid synaptic transmission in the central nervous system. Experience with patch-clamp recordings of neuron in culture and slice preparations is required, as is experience with the application of molecular and cellular biology techniques to the study of neurotransmitters and their receptors. A curriculum vitae, a one- or two-page statement of research interests, and the names of three references should be mailed to: **Dr. Donna L. Hammond, Department of Anesthesia and Critical Care, The University of Chicago, 5841 South Maryland Avenue, MC 4028, Chicago, IL 60637.** Applications will not be accepted by Email. *The University of Chicago is an Affirmative Action/Equal Opportunity Employer.*

**ECOLOGIST**

**WASHINGTON COLLEGE**

The Washington College Biology Department invites applications for a tenure-track position in marine/estuarine ecology, at the rank of **ASSISTANT PROFESSOR**, beginning August 1997. Commitment to excellence in undergraduate teaching and research and a Ph.D. are required. Teaching responsibilities include introductory biology, ecology, and additional upper-level courses that may include invertebrate biology and evolution. Washington College is a private liberal arts college located on a tributary of the Chesapeake Bay, and development of an undergraduate research program focusing on the regional ecosystem is expected in support of majors in biology and environmental studies. Send curriculum vitae, statement of teaching philosophy, three letters of reference, and undergraduate and graduate transcripts to: **Dr. Kathleen M. Verville, Chair, Department of Biology, Washington College, 300 Washington Avenue, Chestertown, MD 21620** by January 15, 1997. *Washington College is an Equal Opportunity Employer. Women and minorities are encouraged to apply.*

**FIELD ZOOLOGY/WILDLIFE BIOLOGY**

**JOINT APPOINTMENT** in Biology and Environmental Studies Departments. Desired area of expertise: wildlife management, conservation biology, or another area of zoology at the organismic or population level. Also required is a desire to teach general biology and biology courses for non-majors. Supervision of undergraduate research is expected. This is a two-year appointment with the possibility of extension to a permanent position.

Interested applicants should submit a cover letter, curriculum vitae, official graduate transcripts, and three letters of reference to: **Dr. Virginia McKinley, Vice President for Academic Affairs, Warren Wilson College, P.O. Box 9000, Asheville, NC 28815-9000.** Review of applications will begin December 16, 1996.

**Ecosystem Ecology — Limnology**  
**University of Minnesota, Twin Cities**

The Department of Ecology, Evolution, and Behavior is searching for two new faculty at the Assistant or Associate Professor level as part of the first phase of a series of hirings. Successful candidates will be expected to establish vigorous, extramurally funded research programs, train graduate students, and teach undergraduate and graduate courses in their areas of expertise. A Ph.D. or its equivalent in a relevant biological discipline is required and post-doctoral experience is desired. Application review will begin on December 1, 1996. Closing date is January 22, 1997. Send a CV, statement of teaching and research interests, copies of up to three reprints, and have three letters of reference sent to Chair, [Appropriate] Search Committee, Department of Ecology, Evolution, and Behavior, University of Minnesota, 1987 Upper Buford Circle, St. Paul, MN 55108. See <http://biosci.cbs.umn.edu/eeb/jobs/> for more information. The two positions are:

**Ecosystem/Community Ecology** — All those working in this area are encouraged to apply, but we are particularly interested in those pursuing rigorous field work in terrestrial habitats, especially work that links ecosystem processes such as nutrient or carbon dynamics with community dynamics or that addresses regional or global biogeochemical issues.

**Moos Chair in Limnology** — All those working in this area are encouraged to apply, but we are particularly interested in candidates with general interests in inland aquatic systems and expertise in algal ecology, microbial ecology, biogeochemistry, or other areas that complement existing programs at the University of Minnesota. This endowed chair will be filled at the Assistant or Associate Professor level.

*The University of Minnesota is an Equal Opportunity Educator and Employer.*

## TENURE-TRACK POSITION

The Liver Diseases Section of the National Institute of Diabetes and Digestive and Kidney Diseases invites applications for a tenure-track position in the intramural program of NIH. The Section is located in the Warren Magnuson Clinical Center (Building 10) with newly renovated laboratory space. The mission of the Section is to develop integrated, multidisciplinary approaches to the study of liver diseases, and to bridge clinical medicine and basic science with translation of fundamental knowledge to prevention, diagnosis and treatment of liver diseases. In addition to providing clinical services on liver diseases in the Clinical Center, the Section also carries on active basic and clinical research programs. Ongoing basic research activities focus on molecular pathogenesis of hepatitis B and C virus infections as well as on animal models of liver diseases. Active clinical investigations into the evaluation and treatment of various forms of liver diseases are also an integral part of the research activities of the Section. Applicants should have a M.D. or Ph.D. degree, a special interest in liver diseases, a strong record of scientific accomplishments, a commitment to the aims and overall direction of the Section, and the ability to establish an independent research program. Candidates with strong background in immunology, molecular and cell biology, or gene therapy are especially encouraged to apply. Salary, resources and personnel support will be commensurate with education and experience. Applicants should send a curriculum vitae and three letters of recommendation to:

**DIVISION OF INTRAMURAL RESEARCH, NIDDK**  
**BUILDING 10, ROOM 9B16**  
**10 CENTER DRIVE MSC 1800**  
**BETHESDA, MD 20892-1800**



Applications must be received by December 16, 1996.  
NIH is an Equal Opportunity Employer

## ANNOUNCEMENT

### Research Funding Now Available for the Study of

## Ataxia-Telangiectasia

Grants are now available to support basic and applied research efforts aimed at increasing scientific understanding of Ataxia-Telangiectasia (A-T) and at developing therapeutic treatments for patients with this brutal disease.

#### Areas of Particular Interest:

- ◆ Functional Analysis of the ATM Protein and Identification of Associated Pathways in Various Cell Types and Tissues, with Particular Emphasis on the Nervous System
- ◆ The Role that May Be Played by Oxidative Stress in the Cerebellar Neurodegeneration Seen in All Patients with Ataxia-Telangiectasia
- ◆ Physiological Studies of A-T Patients and Animal Models with Emphasis on Neuropathology
- ◆ Identification of Compounds that May Correct the A-T Phenotype both *in vitro* and *in vivo*.

Competitive awards will be given to academic, government and corporate researchers for one- and two-year projects to be funded up to a maximum total direct cost of \$75,000 per year. No administrative overhead or fixed costs are supported. Quarterly grant awards are made using a thorough peer-review selection process. Scientific excellence, uniqueness of approach and direct relevance to A-T are the paramount criteria in award decisions. The next deadline for submission of proposals is January 1, 1997, with decisions by March 1, 1997 and grant periods starting by March 15, 1997. For grant proposal guidelines, interested researchers should contact the A-T Children's Project or visit our internet world-wide-web home page.



Phone: 561-395-2621 • Fax: 561-395-2640 • e-mail: [bradmargus@delphi.com](mailto:bradmargus@delphi.com)  
Web Home Page: <http://www.med.jhu.edu/ataxia/>

The Biotechnology Research and Applications Division, a multidisciplinary group within the Life Science Operation at Science Applications International Corporation (SAIC), is pursuing front-line research in areas of developmental neurophysiology, neural prosthetics, biosensors and biocompatibility. We are inviting applications from energetic and committed Ph.D.-level investigators in the following areas:

#### Cell Biology, Senior Scientist

Requirements: 5-15 years experience in cell culture, including but not limited to neuronal and endothelial cell types. Knowledge in permissive growth surfaces, cell-patterning, developmental neuroscience, molecular biology and microscopic analyses a plus. Strong record of peer-reviewed publications required. Responsibilities to include establishment of qualitative and quantitative analyses for evaluation of cell maintenance and outgrowth.

#### Protein Biochemistry, Research Associates (2 positions)

Requirements: 1-3 years experience in protein immobilization, purification and identification techniques, including; covalent coupling methodologies, PAGE, HPLC, affinity LC and immunoassays. Proficiency in enzymatic methods and surface modification considered a benefit.

#### Electrophysiology, Research Associates (2 positions)

Requirements: 1-3 years experience in patch-clamp recording of cells from primary neuronal culture and cell lines; knowledge of computer applications for data acquisition. Background in Physiology, Pharmacology or Biomedical Engineering preferred.

Research Associates will be hired under three (3) year appointments with opportunity to progress to senior scientist level. Successful candidates must be U.S. citizens or permanent residents. Applicants selected will be subject to a background investigation and must meet eligibility for access to classified information.

Interested candidates should forward a complete Curriculum Vitae with representative publications, along with salary requirements to: Science Applications International Corporation, Dept. JHB64, 6 Taft Court, Suite 300, Rockville, MD 20850. FAX: (301) 309-8499. EOE - We value cultural diversity in the workplace.



**SAIC** An Employee-Owned Company  
**Science Applications International Corporation**

[www.saic.com](http://www.saic.com)

**POSITIONS OPEN**

**PLANT OR MICROBIAL ECOLOGIST**

The Biological Sciences Department of DePauw University invites applications for a three-year term position at the **ASSISTANT PROFESSOR** level. The department has a three-course introductory core consisting of introductions to animal, plant, and microbial biology. Individual selected expected to teach either a plant or microbial introductory course plus develop a course in environmental issues for non-majors and an advanced course in her or his area of specialty. Preference will be given to individuals capable of directing undergraduate student research. Please submit curriculum vitae, names and addresses of three references, graduate transcripts, and statement of teaching and research interests to: **Search Committee, Biological Sciences Department, DePauw University, Greencastle, IN 46135**. Review of applications will begin December 2, 1996 and continue until position is filled. *DePauw University is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.*

**CELL BIOLOGY/MICROBIOLOGY/DEVELOPMENT**

The Department of Biology at Queens College of The City University of New York (CUNY) seeks tenure-track **ASSISTANT, ASSOCIATE, or FULL PROFESSOR**, beginning September 1997. We seek candidate with doctoral degree, postdoctoral experience, and a record of research achievement in one of the following areas: cell biology, microbiology, or development. Established record of funded research projects is highly desirable and is expected for appointment as Associate or Full Professor. Responsibilities will include establishment of an active research program and teaching at the undergraduate and M.A./Ph.D. level. Salary range: Assistant Professor: \$29,931 to \$52,213; Associate Professor: \$39,003 to \$62,394; Full Professor: \$48,414 to \$74,980. Send letter detailing research interests/future plans, curriculum vitae, and three letters of recommendation. Complete application including letters of recommendation must be received by January 15, 1997. Send to: **Dr. Uldis Roze, Chair, Search Committee, Department of Biology, Queens College, CUNY, Flushing, NY 11367-1597**. *Affirmative Action/Equal Opportunity Employer/ADA.*

**ANIMAL ECOLOGIST  
University of Nebraska**

The School of Biological Sciences invites applications for a tenure-leading faculty position at the **ASSISTANT PROFESSOR** level. Applicants should possess research expertise in investigating important evolutionary or ecological processes at the physiological level. Candidates will be expected to develop a vigorous research program, preferably with a significant field component, and assume teaching responsibilities at the undergraduate level in the area of physiology and at the graduate level. Scientists with a Ph.D. and postdoctoral experience may apply by sending a curriculum vitae and statement of research interest and arranging for three letters of reference to be sent by December 13, 1996 to: **T. J. Morris, School of Biological Sciences, 348 Manter Hall, University of Nebraska-Lincoln, Lincoln, NE 68588-0118**. The position will be open until a suitable candidate is selected. Check <http://bs-biosci.unl.edu/> for more information. *University of Nebraska-Lincoln is committed to a pluralistic campus community through Affirmative Action/Equal Opportunity, and is responsive to the needs of dual career couples. We ensure reasonable accommodation under ADA; contact Dr. T. Jack Morris for assistance at 402-472-6676.*

**NATURAL RESOURCE SOCIAL SCIENCE**

The Yale University School of Forestry and Environmental Studies seeks to make an appointment in natural resource social science. Candidates must have a field orientation and be engaged in research that contributes to the ongoing theoretical and policy debates in natural resources management, especially as it relates to terrestrial ecosystems. This search is open as to level and discipline, although candidates who qualify for a **TENURED** appointment and are active in anthropology, political science, or sociology are of particular interest. A record of successful participation in interdisciplinary teaching and research is essential.

The deadline for receipt of application materials is January 15, 1997. Please send a statement of research and teaching interests, a curriculum vitae, and the names and addresses of three references to: **Professor Stephen R. Kellert, Yale University School of Forestry and Environmental Studies, 205 Prospect Street, New Haven, CT 06511**. Email: [skellert@minerva.cis.yale.edu](mailto:skellert@minerva.cis.yale.edu).

*Yale University is an Equal Opportunity/Affirmative Action Employer. Women and minority group members are encouraged to apply.*

**POSITIONS OPEN**

**ASSISTANT PROFESSORSHIP IN BIOLOGY**

The Department of Biology at West Virginia University invites applications for a **TENURE-TRACK** position at the level of beginning Assistant Professor in the area of Cellular and Molecular Biology. Subject to funding approval, this position will be available August 15, 1997. Applicants must have a Ph.D., or equivalent, with appropriate postdoctoral training. Teaching is an important consideration and the successful candidate will be expected to teach in the undergraduate and graduate programs. The candidate must be prepared to establish a strong externally funded research program. We are seeking scientists whose research interests are in the bioregulation of aging, bone, gene expression, or reproduction, but strong candidates in others will be considered. Please submit a curriculum vitae and a statement of teaching and research interests, and provide the names, addresses, and telephone numbers of three references to: **Cellular and Molecular Biology Search Committee, P.O. Box 6057, Department of Biology, West Virginia University, Morgantown, WV 26506-6057**. Review of applications will begin on January 5, 1997. *West Virginia University is an Affirmative Action/Equal Opportunity Employer. Women, individuals with disabilities, and minority candidates are encouraged to apply.*

The University of Texas-Pan American (UTPA) invites applications for appointment to the position of **DEAN** of the College of Science and Engineering (COSE). Qualifications include: 1) an earned doctorate with credentials sufficient for an academic appointment in one of the departments of the College at the rank of Professor; 2) administrative experience at the level of Department Chair or above; 3) commitment to and a record of excellence in teaching, research, and service; 4) effective leadership and management skills and the ability to build effective relations with students, faculty, alumni, and the community; and 5) the ability to provide leadership in the development of new programs and in seeking extramural funding to support program goals. Salary: competitive and commensurate with experience and credentials. The applicant should forward: 1) a letter of interest that addresses the required qualifications, 2) a detailed curriculum vitae, 3) a list of three references with addresses and telephone numbers. Review of applications will begin November 30, 1996. Applications will be accepted until the position is filled. The successful candidate will assume the duties of Dean effective September 1, 1997. Please mail application materials to: **University of Texas-Pan American, Personnel Office, Search for Dean of COSE, 1201 West University Drive, Edinburg, TX 78539**. *UTPA is an Affirmative Action/Equal Opportunity Employer. (E96/97-07)*

The Department of Oral Medicine and Diagnostic Sciences (OMDS) and the Center for Molecular Biology of Oral Diseases (CMBOD) of the University of Illinois at Chicago invite applications for two tenure-track faculty positions at the **ASSISTANT PROFESSOR** level in the areas of biological interactions of proteases and their inhibitors and molecular biology of the cell cycle, aging, and apoptosis. The successful candidates will have had several years of postdoctoral experience and evidence of being able to develop a successful independent, interactive research program that liaises between the two academic units. Applicants should submit a curriculum vitae including a research prospectus and the names of three referees to: **Secretary, Faculty Search Committee—OMDS/CMBOD, Center for Molecular Biology of Oral Diseases (M/C 860), University of Illinois at Chicago, 801 South Paulina Street, Chicago, IL 60612**. These positions are available immediately. For fullest consideration applications should be submitted by December 31, 1996. *The University of Illinois is an Affirmative Action/Equal Opportunity Employer.*

**ASSISTANT/ASSOCIATE PROFESSOR**—Small Grain Quality Improvement, fiscal-year, tenure-track, 85% research (Montana Agricultural Experiment Station); 15% instruction position available April 1, 1997. Required: Ph.D.; expertise appropriate to the development of a productive research and teaching program in end-use quality improvement of wheat and/or barley. Individuals with training in biochemistry and/or molecular biology are encouraged to apply. Prior research experience with small grain quality analysis not required. Applicants must request a complete vacancy announcement from: **Kathy Jennings, Plant, Soil and Environmental Sciences, Montana State University, Bozeman, MT 59717-3120**. Telephone: 406-994-4601; FAX: 406-994-3933; Email: [asskj@msu.oscs.montana.edu](mailto:asskj@msu.oscs.montana.edu). Screening begins February 1, 1997.

**POSITIONS OPEN**

**CHIEF, LABORATORY OF PARASITIC BIOLOGY AND BIOCHEMISTRY  
FDA/Center for Biologics Evaluation and Research**

The Food and Drug Administration (FDA), Center for Biologics Evaluation and Research, Office of Vaccine Research and Review, is seeking a **CHIEF** for the Laboratory of Parasitic Biology and Biochemistry (Physician, GS-602-14/15, \$68,735 to \$148,400 or Biomedical Scientist, Ph.D. GS-14/15, \$62,473 to \$95,531). Applications are invited from candidates with demonstrated experience in the evaluation of the safety, efficacy, and public health significance of parasitic vaccines and related products in addition to strong leadership and managerial ability to effectively communicate with government, industry, and officials of the scientific and academic communities. Experience in the biomedical sciences and additional research training in leishmaniasis, malaria, or other parasitic diseases is desired.

*U.S. citizenship is required.* Send a résumé or Optional Application for Federal Employment (OF-612) to: **Melanie Whelan or Erin O'Donovan, 1401 Rockville Pike, Building 29B, Room 1H16, HFM-400, Rockville, MD 20852-1448**. Telephone: 301-827-0655. *FDA is an Equal Opportunity Employer.*

A **SENIOR FACULTY** position is available in the Departments of Neurology and Anatomy and Cell Biology at Wayne State University School of Medicine. Candidates should have a Ph.D. or M.D., and laboratory experience in molecular and cell biology as it applies to the area of neurologic injury and cerebrovascular disease. Demonstrated ability to attract external funding and to develop and mentor fellows and junior faculty as well as teaching experience in neuroscience is highly recommended. Faculty rank dependent on prior experience and credentials. Send curriculum vitae along with the names of three references to: **Robert P. Lisak, M.D., Professor and Chair, Department of Neurology, Wayne State University School of Medicine, 6E University Health Center, 4201 St. Antoine, Detroit, MI 48201**. *Wayne State University is an Equal Opportunity/Affirmative Action Employer. All buildings, structures, and vehicles at Wayne State University are smoke-free. Wayne State University—people working together to provide quality service.*

**DEVELOPMENT SCIENTIST**

**MICROBIOLOGICAL ASSOCIATES (MA)** is seeking a Development Scientist who will collaborate with senior technical staff to plan and conduct innovative programs directed toward the development of new commercial assays. Will review literature, prepare research proposals, and publish findings. The position requires a Ph.D. in cell biology, virology, molecular biology, or biochemistry and two years of postdoctoral experience. Experience in cell-based virus assays or rare mutation detection in oncogenes is preferred. MA offers a competitive compensation package including bonuses and matching 401(k). Forward your résumé and current salary to: **Microbiological Associates, 9900 Blackwell Road, Rockville, MD 20850**. FAX: 301-738-1036. *Equal Opportunity Employer/Minorities/Females/Disabled/Veterans.*

**TECHNICAL FIELD REPRESENTATIVE**

The Jackson Laboratory has an opening for a **TECHNICAL FIELD REPRESENTATIVE** based in the Midwest. The representative will make direct contact with scientific and business professionals in medical research institutions, pharmaceutical companies, and biotechnology companies. Candidates must have a B.S. or M.S. in biological sciences and prior experience in a research setting. The candidate must be a self-starter with superb time-management and communication skills. Previous biomedical sales or marketing experience is preferred. Extensive travel is expected. Please send your résumé to: **Suzanne Torrey, The Jackson Laboratory, 600 Main Street, Bar Harbor, ME 04609**.

The UCLA Department of Pediatrics is seeking a molecular biologist with an interest in developmental aspects of cardiac physiology. Our current areas of exploration include transcriptional regulation of cardiac calcium channel isoforms, developmental regulation of G-protein and calcium transport protein expression, and the role of Na<sup>+</sup>-Ca<sup>2+</sup> exchange in cardiac contraction. Salary dependent upon experience. Please send curriculum vitae, summary of research experience, and three letters of recommendation to: **Glenn Wetzel, M.D., Ph.D., UCLA Children's Hospital, Room B2-427 MDCC, Box 951752, Los Angeles, CA 90095-1752**. FAX: 310-825-7458. *UCLA is an Affirmative Action/Equal Opportunity Employer.*

**ASSISTANT/ASSOCIATE PROFESSOR  
TENURE-TRACK POSITIONS IN BIOLOGY**

The Department of Biological Sciences at Kent State University invites applications for four faculty positions at the Assistant or Associate level beginning Fall 1997. Applicants should have a Ph.D. or equivalent degree with postdoctoral research experience. The successful candidate at the Assistant Professor level is expected to develop a strong research program, seek extramural funding, and participate in undergraduate and graduate teaching. At the Associate Professor level a successful candidate also must have a strong record of publication and substantial past and current extramural funding. We particularly seek individuals who will complement and bridge departmental strengths in aquatic ecology, systematic biology, and reproductive biology; start-up funds are available. The Department includes facilities for organismal, cellular, and molecular research.

**Position 1. Environmental Biologist** studying freshwater environments; applied research interests in the study of organic carbon desirable.

**Position 2. Evolutionary Ecologist** investigating evolution of ecological associations or adaptations using a phylogenetic approach. Any organismal system will be considered, but those involving insects or higher plants are especially desirable.

**Position 3. Wetlands Ecologist** studying the impact of anthropogenic disturbances or environmental stress on the biota in wetland ecosystems.

**Position 4. Reproductive Physiologist** with research interests including but not limited to environmental control of reproductive behavior or effects of environmental toxins on reproductive endocrinology.

Please clearly indicate the positions(s) in which you are interested. Completed applications must be received by December 31, 1996 and must include a curriculum vitae, a statement of research interests, transcripts, and three letters of recommendation. Send the application to: **Search Committee, Box 29, Department of Biological Sciences, Kent State University, Kent, OH 44240.**

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

**CELL DEATH / APOPTOSIS**

**IDUN Pharmaceuticals** is an early stage biopharmaceutical company focused on the biochemical mechanisms of **cell death**, with therapeutic applications to neurodegenerative diseases, cancer and inflammation.

**Cellular Neurobiologist /  
Molecular Neuropharmacologist**

Ph.D. with 3-6 years experience and reputation in neuronal cell death and cell culture models of stroke and/or neurodegenerative disease, preferably in the biotechnology/pharmaceutical industry. Candidate will establish and validate primary neuronal apoptosis assays and play an integral role in the discovery of small molecule cell death inhibitors. Extensive experience with primary culture of central neurons (cortical, hippocampal, mesencephalic, motoneurons), neuronal viability and apoptosis assays, and a keen interest in drug discovery are required.

**IDUN Pharmaceuticals** offers the excitement of a rapidly growing company in La Jolla, CA. We offer an attractive compensation and benefits package including equity participation. For confidential consideration, please send your *curriculum vitae* to:

**IDUN Pharmaceuticals**  
Code CNN  
11085 N. Torrey Pines Rd. Suite 300  
La Jolla, CA 92037  
Equal Opportunity Employer

**MEHARRY MEDICAL COLLEGE  
SCHOOL OF MEDICINE**

**Research Centers in Minority Institutions (RCMI) and  
the Department of Biochemistry**

Faculty positions are available in 1996/97 at the Assistant Professor, Associate Professor or Professor levels in the area of cell signaling which has been targeted for expansion at the College. Initial funding for these positions is provided by an NIH-funded RCMI program at the College and support from the School of Medicine.

Recruitment of four individuals is expected, in an effort to develop a critical mass of investigators studying cell signaling at the institution. **We are seeking scientists who merit primary appointment in the department of biochemistry.** Joint appointments in clinical or other basic sciences departments are expected. Preference will be given to applicants who have an interest that complements one of our clinical science departments. Selected individuals must have potential or demonstrated competence in the use of molecular biological or biophysical approaches to conducting research in cellular signaling and must also be capable of, and committed to making significant contributions to the teaching and administrative functions of the appointing department(s). Successful applicants will be expected to develop/maintain a funded research program of high quality and to substantially participate in the graduate and professional (medical, dental, and applied health) school teaching programs of the department of biochemistry or other appointing department(s). They will also be required to participate in the further development of molecular neuroscience at the College. Applicants should send curriculum vitae, a statement on teaching interests, names of four individuals who may be contacted for reference, and a summary (not exceeding four pages) of potential research project(s) to either: **Fred Jones, Ph.D., RCMI Program Director, and Vice President for Research, or John E. Arradondo, M.D., M.P.H., Dean, School of Medicine, (both at) Meharry Medical College, 1005 D.B. Todd Blvd., Nashville, TN 37208.** Applications will be evaluated by the search committee appropriate for the targeted area of cell signaling as well as by the appointing department(s). *Meharry Medical College is an Equal Opportunity/Affirmative Action Employer.*

**MIT**

**FACULTY POSITIONS**

The Department of Civil and Environmental Engineering at the Massachusetts Institute of Technology seeks outstanding individuals in the area of Environmental Engineering. The Department has particular interests in the areas of environmental microbiology, subsurface hydrology and contaminant transport, environmental fluid dynamics, regional air quality (transport and chemistry), waste management, and industrial ecology. The Department offers undergraduate degrees in environmental engineering science and in civil engineering. Graduate degrees cover the aquatic sciences (chemistry, biology, biogeochemistry), hydrology, environmental fluid dynamics and environmental technologies. Related areas of transportation and construction are also covered within the Department.

One or more tenure track assistant professor positions are possible. Extraordinary senior candidates will also be considered. Candidates should be capable of developing a strong sponsored research program and of excellent teaching at undergraduate and graduate levels. Candidates should have an interest in collaborating with other faculty within the Department and the greater MIT community. MIT has broad-ranging activities and opportunities in the environmental sciences and engineering. We welcome applicants from any field who contribute to the environmental sciences and engineering. An earned doctorate is required and postdoctoral experience desirable.

*The Department is committed to seeking qualified women and minority candidates. We strongly encourage them to apply. Candidates should send a Curriculum Vitae and names of three references to: Professor Rafael L. Bras, Head, Department of Civil and Environmental Engineering, Room 1-290, Massachusetts Institute of Technology, Cambridge, MA 02139. Applications are due by January 15, 1997.*



**Massachusetts Institute of Technology**  
An Equal Opportunity/Affirmative Action Employer  
Non-Smoking Environment

## POSITIONS OPEN

**PRODUCTS DEVELOPMENT ASSISTANT** for data collection related to product functions on various geological formations and underground conditions used by petroleum exploration, well drilling and selection of new products for development based on the analysis of industry data monitoring and performing quality control of products in the current and future programs of the firm. Requirements: B.Sc. in geology. Experience: two years in the job offered or two years as a geologist. Experience must be in the area of petroleum exploration, utilization of tools and equipment used in the geophysical processes and in the underground water resources investigation. Six months of experience is required in monitoring the performance of tools and equipment used in drilling of various geological formations and underground conditions. Data collection, modification and preparation of relevant summary reports about performance of the tools and equipment used in production. Experience must also be in the assignment of appropriate tools from available tool alternatives for the implementation of underground drilling of various geological formation and underground conditions, as well as six months of experience in quality control and drilling techniques, and the selection of cutting tools from available pool of alternatives. 40 hours per week; 7:30 a.m. to 4:00 p.m.; \$34,295 per year. Please send résumés and proof of requirements in duplicate (no calls) to: **ES Sp Prgrms, Reference Number 1966, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216.** Those who are not authorized to work permanently in the U.S. need not apply.

The Columbia Earth Institute of Columbia University seeks an **ASSOCIATE RESEARCH SCIENTIST (ARS)** responsible for developing and implementing a vigorous interdisciplinary research program in industrial ecology with an emphasis on material flows. We seek an individual with interest in either toxic metals or land use, and with experience in building interdisciplinary research programs. There are two main thrusts to this position: 1) The ARS will develop a vigorous personal research program in the field of industrial ecology; 2) The ARS will help to design and implement a broad industrial ecology research program for the Earth Institute as a whole. The ARS must interact with faculty and researchers from the Lamont-Doherty Earth Observatory, the School of Engineering and Applied Science, and the Department of Earth and Environmental Science; the field will also require developing relationships with social science units across the University. In addition, the ARS will develop partnerships with sectors beyond Columbia to the extent necessary to build a strong and rigorous research program.

Ph.D. and three to five years of experience required in relevant field. Strong interest in research administration and policy, and developing interdisciplinary research teams is required. Applications to: **Christopher Simoneau, Assistant Director, Columbia Earth Institute, 535 West 116th Street, 401 Low Library, New York, NY 10027.** Deadline: December 15, 1996.

*Columbia University is an Equal Opportunity/Affirmative Action Employer.*

## CRIMINALISTS AND SENIOR CRIMINALISTS

California Department of Justice is seeking applicants for **CRIMINALIST** and **SENIOR CRIMINALIST** positions throughout the state of California. Analysts will conduct examination of crime scenes for physical evidence and biological and chemical analyses. Qualifications include a B.S. or M.S. degree in a physical or biological science, eight credit hours of general chemistry, and three credit hours of quantitative analysis/chemistry. Monthly salary for Criminalists: \$2,343-\$4,453 and Senior Criminalists: \$4,054-\$4,896. To apply please contact: **Janet Crocker, 4949 Broadway, Room F 104, Sacramento, CA 95820.** Telephone: 916-227-3635. Exam applications are due by November 18, 1996.

## TROPICAL PLANT ECOLOGIST

The Institute of Pacific Islands Forestry, Pacific Southwest Research Station, USDA Forest Service, seeks applicants for a permanent position in Population/Community Ecology to examine invasion and impact of non-indigenous plant species in Hawaii. Scientists who use an experimental approach to answer ecological questions are preferred. The position is based in Hilo, Hawaii. Salary \$41,296 plus 15% cost-of-living allowance. A vacancy announcement that includes qualification requirements and application procedures may be requested from: **PSW Research Station Personnel Office, Telephone: 510-559-6300.** Inquiries about the position should be directed to: **Dr. Dennis J. O'Dowd, Telephone: 808-935-6292 or Internet: odowd@aloha.net.**

*USDA is an Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN

### TEXAS INSTRUMENTS

TEXAS INSTRUMENTS,  
INCORPORATED  
Biosensor Research Scientist  
Sensors and Infrared Laboratory

The marriage of biotechnology and microelectronics promises to create exciting new products that will enhance the way we live. Biological recognition elements, coupled with microelectronic transduction technologies, will enable new types of Biological Sensor Systems for medical diagnostics, chemical detection, and biomolecular analysis. In the Corporate Research Laboratories at Texas Instruments, we have assembled a multidisciplinary group of scientists to define and develop these cutting edge technologies and opportunities. Our team is seeking a new member with a Ph.D. in biochemistry, biophysics, immunology, or related discipline and a background in protein chemistry, to become a full-time member of our research and development staff. The successful candidate will develop novel procedures to interface antibodies with microelectronic transducers. For immediate consideration, a résumé, with cover letter, should be mailed to: **Dr. Jose Melendez, Texas Instruments Incorporated, P.O. Box 655936, M/S 150, Dallas, TX 75265.** FAX: 972-995-6558.

## DNA SEQUENCING FACILITY MANAGER

A **LABORATORY MANAGER** is sought to operate a new core DNA sequencing facility at North Carolina State University (NCSU). This facility will function as a campus-wide service unit and will carry out research in large-scale DNA sequencing projects.

Candidates with experience operating ABI or Li-Cor automated DNA sequencers are sought. Additional experience in laboratory or facility management is desirable, and proficiency with computers and databases is preferred. M.S. or Ph.D. in biological/chemical science required.

Applicants should send their curriculum vitae and names, addresses, and telephone numbers of three references to:

**Dr. Ross Whetten**  
Forest Biotechnology  
Box 8008  
NCSU  
Raleigh, NC 27695

## LABORATORY INSTRUCTOR/ OPERATIONS COORDINATOR

Biotech Training Center (CATCMB) seeking highly motivated individual with a Ph.D. (or M.S.) in molecular biology or related field. Duties include laboratory instruction, database development, and occasional travel to offsite workshops. Strong proficiency in computer resources and excellent communication and organizational skills are a must. Salary \$30,000 to \$33,000 with benefits. Send résumé and names of three references to: **Dr. Venigalla B. Rao, Catholic University of America, Biology Department, 103 McCort Ward Building, Washington, DC 20064.** *Affirmative Action/Equal Opportunity Employer.*

## POSTDOCTORAL ASSOCIATE

The University of Minnesota has a **POSTDOCTORAL ASSOCIATE** position available to conduct research on *in vivo* and *in vitro* immunomodulation by recombinant avian cytokines. Candidates must have completed a Ph.D. degree or an equivalent foreign degree in immunology, virology, or microbiology. The Ph.D. degree must be conferred prior to start date. Candidates who have completed a D.V.M. degree or an equivalent foreign degree plus a Ph.D. degree or equivalent foreign degree in immunology, virology, or microbiology and one year of avian immunology will be given preference. This is an annually renewable position, which is funded for two years. Annual salary is \$30,000 plus benefits. Position is available on January 1, 1997. Please send a curriculum vitae and the names and addresses of three references by December 2, 1996 to: **Dr. J. M. Sharma, Department of Veterinary Pathobiology, College of Veterinary Medicine, University of Minnesota, St. Paul, MN 55108.** Telephone: 612-625-5276; FAX: 612-625-5203; Email: sharm001@maroon.tc.umn.edu.

*The University of Minnesota is an Equal Opportunity Educator and Employer.*

## POSITIONS OPEN

**CLINICAL RESEARCH ASSOCIATE** for international health care company in Columbus, Ohio. Implement and complete milestone-based research in an international health care company, including participation in projects related to disease-specific nutritional products having anti-inflammatory or immuno-potentiating effects which are indicated for inflammatory and immuno-compromised conditions. Activities include designing animal and human clinical experiments, identifying study sites, monitoring study progress, ensuring quality of materials, and preparing presentations. The incumbent will demonstrate the technical potential of new unique ingredients and processes relevant to such nutritional products and identify such new ingredients from domestic and foreign (primarily Japanese) suppliers. Incumbent will utilize fluency in Japanese language in contract negotiations and other related interactions. Additional responsibilities include exchanging information with Japanese researchers and providing technical assistance to the firm's Japanese affiliates. Approximately 20 to 30 percent of time will be spent in domestic and international travel. Ph.D. in biology or animal science or nutritional chemistry and two years of experience in the job described or two years of experience as a scientist required. Experience must have been gained in the pharmaceutical industry in the development of new products for animal nutrition, mainly amino acids and enzymes. Academic research or experience must have been in nutrition and nutritional biochemistry with an emphasis in the protein and trace element metabolism using poultry or rodents as a model for human and animal nutrition. Applicants must be able to read, write, and speak Japanese fluently. 40 hours, 8:30 a.m. to 5:00 p.m., \$48,620 per year. Send two résumés and cover letters (no calls) to: **ES Sp Programs, Reference 2143jd, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216.**

## POSTDOCTORAL POSITION Integrative Neuroscience/Physiology

Individual interested in mechanisms underlying the coupling between regional neuronal activity, blood flow, oxygen extraction and metabolism in the CNS. NIH-funded position to study the mechanisms of functional magnetic resonance imaging contrast at 3.0 Tesla using a rat model. Knowledge of fMRI and laser doppler flowmetry recommended. Ph.D. in cardiovascular physiology, neuroscience, or biophysics preferred.

Available September 1997. Send curriculum vitae, research interests, and names of three references to: **Elliot A. Stein, Ph.D., Department of Psychiatry or Andrew Greene, Ph.D., Department of Physiology, Medical College of Wisconsin, 8701 Watertown Plank Road, Milwaukee, WI 53226.** Email: [estein@post.its.mcw.edu](mailto:estein@post.its.mcw.edu). *The Medical College of Wisconsin is an Affirmative Action Employer. Minority/Female/Disabled/Veteran.*

## POSTDOCTORAL POSITIONS Developmental Neurobiology

**POSTDOCTORAL POSITIONS** are immediately available to study the development of the olfactory system. Studies will focus on the molecular mechanisms underlying the patterning of the olfactory epithelium and the establishment of appropriate synaptic connections between the olfactory epithelium and the olfactory bulb. A strong background in molecular biology is required. Please submit a description of research interests, curriculum vitae, and names of three references to: **Dr. Susan Sullivan, NIDCD/NIH, 5 Research Court, Rockville, MD 20850.**

A **POSTDOCTORAL RESEARCH** position is available to analyze cellular immune responses to SIV and CMV in nonhuman primates. Applicants should have a strong background in cellular immunology, including T cell cloning and flow cytometry.

Please send curriculum vitae and the names of three references to: **Dr. Paul Johnson, Division of Immunology, New England Regional Primate Research Center, Harvard Medical School, P.O. Box 9102, Southborough, MA 01772.**

## GLOBAL ENVIRONMENTAL CHANGE

The Department of Engineering and Public Policy at Carnegie Mellon University seeks graduate students interested in pursuing research relevant to its Center for Integrated Study of the Human Dimensions of Global Change. Applicants must hold a degree in engineering, physical sciences, or math. Education or experience beyond the B.S. very desirable. Contact: **Denise Murrin-Macey, EPP, Carnegie Mellon, Pittsburgh, PA 15213.**

**NIMH NATIONAL TRAINING PROGRAM IN COMPLEX SYSTEMS AND BRAIN SCIENCES AT FLORIDA ATLANTIC UNIVERSITY Pre- and Postdoctoral Fellowships**

Predoctoral and Postdoctoral fellowships are available, funded by NIMH (Division of Basic Brain and Behavioral Sciences). Individuals with undergraduate degrees in pertinent disciplines are invited to apply for this 5-year training program leading to the Ph.D. degree in Complex Systems and Brain Sciences. The Program is administered through the Center for Complex Systems, established in 1985. The aim of the Program is to couple theoretical concepts and methods for handling complex systems to specific experimental research in the cognitive and brain sciences.

Graduate training consists of a core curriculum in non-linear dynamics and neuroscience (including computational modeling and cognitive science). Postdoctoral candidates should have a strong inter-disciplinary interest.

Research areas include: sensorimotor coordination and learning, human brain imaging and event related potentials, brainstem mechanisms of behavior, neural growth and development, ion channel dynamics, speech production and perception, neurolinguistics, visual perception, mathematics of complex systems, nonlinear dynamics, neural networks and robotics.

Applicants should send a letter of interest, GRE scores (graduate fellows only), vita, and 3 letters of reference to: **Dr. Larry Liebovitch, Program in Complex Systems and Brain Sciences, 777 Glades Road, Boca Raton, FL 33431. EOAAE.**

**GLOBAL CAREER OPPORTUNITIES**



**Brain Research Institute  
University of Zurich**

**Assistant Professor in  
Neurobiology/  
Neurochemistry**

Applications are invited for a group leader position in the field of cellular or developmental neurobiology, with at least 5 years of post-doctoral experience. The successful applicant is expected to closely collaborate with research groups of the Zurich Neuroscience Community and to participate in teaching.

Send your application to **Dr. V. Henn, Chair, Search Committee, at Neurology Dept, University Hospital, CH-8091 Zurich.** Candidates should obtain instructions about applications from the **Dean's Office, Medical Faculty, Gloriastr 23, CH-8091 Zurich, fax ++41 - 1 - 255 4565**

**GLOBAL CAREER OPPORTUNITIES**



**FACULTY APPOINTMENTS  
NATIONAL UNIVERSITY OF SINGAPORE  
DEPARTMENT OF COMPUTATIONAL SCIENCE**

<http://www.cz3.nus.sg:8100/>

The Department of Computational Science offers interdisciplinary undergraduate major programmes in Computational Chemistry, Computational Mathematics, and Computational Physics. There is currently a small core of faculty members and several postdoctoral research fellows in the Department. Faculty members from other departments in the Faculty of Science also contribute to the teaching of courses offered by the Department. Teaching facilities include two clusters of workstations (one comprising 39 DecStations, the other 15 SGI Indigo and 8 HP9000/712 workstations) and networked multimedia personal computers. Students and staff in the Department also have access to the Cray J90 supercomputer on campus, as well as the NEC SX3, IBM SP2, and Cray T94 supercomputers at the National Supercomputing Research Centre (NSRC).

Major research areas in the Department include computational statistical and condensed matter physics, nonlinear dynamics and complex systems, scientific visualization, neural computing, computational quantum chemistry and molecular modeling, computational fluid dynamics, geometric modeling, wavelet analysis and applications, signal and image processing. There are strong links between the Department and other national research centres (NSRC, Institute for Materials Research and Engineering, Bioinformatics Centre, Centre for Remote Imaging and Signal Processing) and the Defence Science Organization of the Ministry of Defence. Ties with other academic institutions and research centres overseas are maintained and the Department is fast gaining international recognition. Applications are invited for faculty appointments from candidates who possess a PhD degree or its equivalent in any of the following areas:

- |                                 |   |
|---------------------------------|---|
| <b>Complex Systems</b>          | <b>Computational Fluid Dynamics</b>                                       |
| <b>Neural Computations</b>      | <b>Parallel Scientific Computations</b>                                   |
| <b>Geometric Modelling</b>      | <b>Computational Condensed Matter and Statistical Physics</b>             |
| <b>Symbolic Computing</b>       | <b>Quantum Chemistry (molecular modeling, computer-aided drug design)</b> |
| <b>Scientific Visualization</b> |   |

Duties include teaching, research, and some administrative work. Besides appointments on normal 3-year contracts, visiting appointments for one or two years will also be considered.

Gross annual emoluments range as follows:

Lecturer	S\$58,390 - 74,300
Senior Lecturer	S\$67,940 - 138,090
Associate Professor	S\$122,460 - 170,100

(US\$1.00 = S\$1.40 approximately)

In addition, a 13th month Annual Allowance (of one month's salary) and an Annual Variable Component (of normally 2 months' salary) may be payable at year end, under the flexible wage system, to staff on normal contracts. The commencing salary will depend on the candidate's qualifications, experience, and the level of appointment offered.

Leave and medical benefits will be provided. Depending on the type of contract offered, other benefits may include: provident fund benefits or an end-of-contract gratuity, a settling-in allowance, subsidized housing, education allowance for up to three children subject to a maximum of S\$16,425 per annum per child, passage assistance, and baggage allowance for the transportation of personal effects to Singapore. Staff members may undertake consultation work, subject to the approval of the University, and retain consultation fees up to a maximum of 60% of their gross annual emoluments in a calendar year.

All academic staff will be given a networked personal computer with access to a Cray supercomputer, UNIX hosts, departmental laser printers, a wide spectrum of software, on-line library catalogue, CD-ROM databases, Video-on-Demand, INtv, and Internet.

Application forms and further information may be obtained from:

- |  |   |
|--|---|
| <b>The Director<br/>Personnel Department<br/>National University of Singapore<br/>10 Kent Ridge Crescent<br/>Singapore 119260<br/>Fax: +65 778 3948<br/>Email: PERCNC@NUS.SG</b> | <b>The Director<br/>North America Office<br/>National University of Singapore<br/>55 East 59th Street<br/>New York, N.Y. 10022, U.S.A.<br/>Tel: +212 751 0331</b> |
|--|---|

**Web Site: <http://www.nus.sg/NUSinfo/Appoint/APPL1.HTM>**

*Only shortlisted candidates will be notified.*

**POSITIONS OPEN**

**PREDOCTORAL AND POSTDOCTORAL TRAINING OPPORTUNITIES**

University of Southern California (USC)  
School of Medicine  
and USC/Norris Comprehensive Cancer Center

**PREDOCTORAL AND POSTDOCTORAL** positions funded by the National Institutes of Health (NIH) are open in the Department of Molecular Microbiology and Immunology and the USC/Norris Comprehensive Cancer Center. Predoctoral training is available in virology, immunology, and cancer biology. For specific information regarding mentors and their research please see our web site: <http://www.usc.edu/hsc/medicine/microbiology/tg.html>. For information on virology, immunology, and cancer biology training opportunities, write: **Graduate Administrator, Department of Molecular Microbiology and Immunology, USC School of Medicine, 2011 Zonal Avenue, HMR 401, Los Angeles, CA 90033-1054.** For information on cancer biology training opportunities, write: **Dr. Peter Jones, Director, 1441 Eastlake Avenue, NOR 815, MS/83, Los Angeles, CA 90033.** Individuals interested in postdoctoral positions should contact prospective advisors directly. Deadline for receipt of completed predoctoral applications is June 1, 1997 for predoctoral studies beginning August 1997. No deadline for postdoctoral applicants. NIH requires that applicants for these positions be U.S. citizens or permanent residents.

**POSTDOCTORAL RESEARCH** positions are available at the University of Washington (UW) and the Fred Hutchinson Cancer Research Center (FHCRC) to study the molecular and/or immunological basis of pathogenesis of sexually transmitted organisms. Participating faculty include: **R. Ashley, R. Berger, L. A. Campbell, R. Coombs, L. Corey, M. Emerman, D. Eschenbach, D. Galloway, A. Geballe, P. Greenberg, D. Gretch, K. Holmes, M. Katze, N. Kiviat, J. Krieger, C. Kuo, M. Lampe, S. Lory, S. Lukehart, J. McDougall, J. Mullins, D. Patton, J. Overbaugh, P. Totten.**

Applicants must have a Ph.D. or M.D. and be U.S. citizens or permanent residents. Please send a curriculum vitae; the names, addresses, and telephone numbers of three references; and a one- to three-page summary of research interests indicating the investigator with whom you wish to work. The application deadline is January 31, 1997 and materials should be sent to: **Dr. King K. Holmes, Center for AIDS and STD, 1001 Broadway, Suite 215, Seattle, WA 98122-4304.** The UW and FHCRC are Equal Opportunity/Affirmative Action Employers.

**POSTDOCTORAL FELLOWSHIP TIME-RESOLVED FOOTPRINTING**

Applicants are sought to participate in a collaborative project in biochemistry/biophysics at the Albert Einstein College of Medicine to study protein DNA-interactions, RNA folding, and protein structure applying a novel new footprinting technology developed by the Center for Synchrotron Biosciences. Competitive salary commensurate with experience. Send a curriculum vitae and three letters of reference to the attention of: **Dr. Mark Chance or Dr. Michael Brenowitz, c/o Jeanne McGee, Department of Physiology/Biophysics, Ullmann Building, Room 315, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1300 Morris Park Avenue, Bronx, NY 10461.** An Equal Opportunity Employer.

**POSTDOCTORAL/RESEARCH ASSOCIATE** position available immediately for an immunologist to conduct independent studies on mechanisms involved in antigen-specific T cell responses induced by antibody-cytokine fusion proteins. Experience in T cell immunology and signal transduction pathways is essential. Send a curriculum vitae, a one-page description of research experiences, and names of three references to: **Ralph A. Reisfeld, Ph.D., Department of Immunology, The Scripps Research Institute, 10550 North Torrey Pines Road, La Jolla, CA 92037.** FAX: 619-784-2708.

**POSTDOCTORAL POSITION**

Position open immediately to study the role of heat shock proteins in modulating the response of mammalian embryos to developmental toxicants. Background in molecular biology essential and additional experience with the production and analysis of gain/loss of function in transgenic mice desirable. Send curriculum vitae and names of three references to: **Dr. Philip Mirkes, Department of Pediatrics, Box 356320, University of Washington, Seattle, WA 98195.**

**POSITIONS OPEN**

**RESEARCH ASSOCIATE POSITION**  
University of Minnesota Cancer Center

Announcing an immediate opening of a Research Associate position in the **ACADEMIC PROFESSIONAL** series working in the new Cancer Center Research Building. The qualified applicant will have an M.D. and/or Ph.D. or the foreign equivalent and a minimum of two years of postdoctoral experience with cell adhesion molecules and/or extracellular matrix. A working knowledge of molecular biology and tissue culture is also required. This position is being filled to study the molecular mechanism(s) involved in colon carcinoma invasion and metastasis formation; the successful candidate will work with colleagues to develop a research program in the area of colorectal cancer biology. A complete application will include a cover letter stating research interests and experience, a curriculum vitae, and names and addresses of three references, and should be sent to: **Julio Garcia-Aguilar, M.D., Ph.D., University of Minnesota Cancer Center, Box 806 UMHC, 420 Delaware Street SE, Minneapolis, MN 55455-0392.** Attn: **Cindy Prange.** The last date for receipt of applications is December 2, 1996. The University of Minnesota is an Equal Opportunity Educator and Employer.

**FELLOWSHIPS** for Postdoctoral Training in Neural Development, Plasticity, and Regeneration at The Ohio State University. Systems, cellular, and molecular approaches are available for trainees supported by a NINDS training grant. Faculty include **M. Beattie, G. Bishop, J. Boulant, R. Boyd, J. Bresnahan, J. Bruno, R. Burry, H. Cooke, M. Hadjiconstantinou-Neff, C. Heesch, L. Horrocks, J. King, J. Lucas, G. Martin, J. Masters, N. Neff, R. Nordlander, J. Oberdick, R. Rogers, A. Rotter, B. Stokes, J. Wood, and A. Yates.** Fellows supported by the training grant must be U.S. citizens or permanent residents.

Applications, including curriculum vitae, statement of research interests, and three letters of recommendation, should be sent to: **Dr. M. S. Beattie and Dr. G. F. Martin, Department of Cell Biology, Neurobiology and Anatomy, The Ohio State University, 333 West 10th Avenue, Number 4072, Columbus, OH 43210.** Telephone: 614-292-1781; Email: [beattie.2@osu.edu](mailto:beattie.2@osu.edu). Potential applicants are encouraged to contact the program directors and prospective faculty sponsors for detailed information (<http://www.med.ohio-state.edu/Neuro/Neurohome.html>). The Ohio State University is an Affirmative Action/Equal Opportunity Employer and encourages women and minorities to apply.

**POSTDOCTORAL POSITIONS IN NEUROSCIENCE**  
University of Connecticut Health Center  
Farmington, Connecticut

**POSTDOCTORAL** research and training is offered by 40 faculty in many disciplines. For further information, and for information on the graduate Ph.D. program, Telephone: 860-679-4678; Email: [nsinfo@neuron.uhc.edu](mailto:nsinfo@neuron.uhc.edu); Web site: [www3.uhc.edu/nsinfo](http://www3.uhc.edu/nsinfo).

**POSTDOCTORAL POSITION** available to study the patterning of the inner ear. Study focuses on identifying genes expressed during early otocyst development and testing the functions of these genes utilizing retroviral vectors and various transplantation techniques. Candidates should have a Ph.D. or equivalent. Strong background in molecular and/or developmental biology preferred. Send curriculum vitae to: **Dr. Doris Wu, NIDCD, NIH, 5 Research Court, Room 2B34, Rockville, MD 20850.** FAX: 301-402-3470; Email: [dwu@pop.nidcd.nih.gov](mailto:dwu@pop.nidcd.nih.gov).

**POSTDOCTORAL POSITIONS** for studies of molecular biology, neuroimmunology, and neurobiology. Background in molecular biology is a must. Please send curriculum vitae and names of three references to: **Dr. Tong H. Joh, Molecular Neurobiology, The W.M. Burke Medical Research Institute, Cornell University Medical College, 785 Mamaroneck Avenue, White Plains, NY 10605.**

**POSITIONS OPEN**

**POSTDOCTORAL POSITION**  
MOLECULAR BIOLOGY OF COLOR VISION

A position is available immediately for a recent Ph.D. to study molecular biology of vertebrate color vision, including characterization of opsin genes and structure/function relationships of opsins using *in vitro* analyses. Experience with recombinant DNA techniques (genomic library construction, cloning, and sequencing) is required and a strong interest in molecular evolution is desirable. Send curriculum vitae, a statement of research interests, and three references to: **Dr. Shozo Yokoyama, Department of Biology, Syracuse University, 130 College Place, Syracuse, NY 13244.** Telephone: 315-443-9166; FAX: 315-443-2012; Email: [syokoyam@mailbox.syr.edu](mailto:syokoyam@mailbox.syr.edu). Syracuse University is an Affirmative Action/Equal Opportunity Employer.

**POSTDOCTORAL POSITION** available immediately to join an expanding group of research and clinical scientists involved in gene therapy and immunotherapy for cancer. This ongoing research effort focuses on genetic modification of tumor cells and immune effector cells in animal tumor model systems. This position requires a strong background in tumor immunology, gene transfer techniques, animal tumor modeling, and *in vitro* culture and assay techniques. Please send curriculum vitae, names of three references, and a brief description of your research interests to: **Dr. James J. Mulé, Maude T. Lane Professor, University of Michigan Medical Center, 1520 MSRB-1, Box 0666, 1150 West Medical Center Drive, Ann Arbor, MI 48109.** FAX: 313-936-2990.

**POSTDOCTORAL CHEMISTRY/BIOCHEMISTRY**—Rhône-Poulenc Rorer, a global leader in the pharmaceutical industry, is seeking an individual for its suburban Philadelphia headquarters. The successful postdoctoral candidate will be a highly motivated individual with a Ph.D. in chemistry, biochemistry, or a related discipline. Candidate must be strong in computational analysis and bioanalytical chemistry, and be familiar with pharmacokinetics. Individual will be part of a biopharmaceutics/pharmacokinetics team involved in studying the structural features of molecules that determine their permeabilities and metabolism. You will use computational analysis of *in vitro* permeability data to predict potential *in vivo* absorption. Qualified candidates should send their résumé to: **Rhône-Poulenc Rorer Research and Development, P.O. Box 5093, Mail Stop 3A77, Collegeville, PA 19426-0997.** Equal Opportunity Employer. Minorities/Females/Disabled/Veterans.

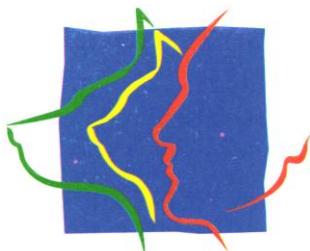
**POSTDOCTORAL OPPORTUNITY**  
University of Miami School of Medicine

NIH-funded **POSTDOCTORAL POSITION** available immediately to study signal transduction events underlying neurite growth induced by adhesion receptors. The individual selected will play a key role in a collaborative project involving two labs. Experience in patch clamp electrophysiology, calcium imaging, and/or the molecular biology of neuronal differentiation is strongly preferred. Please send curriculum vitae, summary of research experience and interests, and the names of three references to: **Dr. John L. Bixby, Email: [jlbixby@molbio.med.miami.edu](mailto:jlbixby@molbio.med.miami.edu) or Dr. Richard J. Bookman, Department of Pharmacology, University of Miami School of Medicine, PO Box 016189, Miami, FL 33101.**

**GENETICS OF COMPLEX TRAITS**

**THREE POSTDOCTORAL** positions immediately available for work on molecular genetic or quantitative genetic aspects of obesity and other complex traits. Current studies include linkage, gene identification, and mutation screening. Ph.D., M.D., or equivalent in related field. Send curriculum vitae and names of three references to: **Dr. R. Arlen Price, University of Pennsylvania, Center for Neurobiology and Behavior, 415 Curie Boulevard, CRB135B, Philadelphia, PA 19104-6140.** Email: [arlen@bgl.psycha.upenn.edu](mailto:arlen@bgl.psycha.upenn.edu); FAX: 215-573-2041.

**POSTDOCTORAL POSITION** available: For studies on regulation of cytokine production by respiratory epithelial cells. Experience with epithelial cell culture and/or *in situ* hybridization required. *American citizen or permanent resident status required by terms of grant funding.* Send curriculum vitae to: **Melvin Berger, M.D., Ph.D., Professor of Pediatrics, Case Western Reserve University, Rainbow Babies and Childrens Hospital, 11100 Euclid Avenue, Cleveland, OH 44106.** Case Western Reserve University is an Affirmative Action/Equal Opportunity Employer.



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BACTERIAL OR  
PARASITIC ORIGINS



All qualified groups or individuals are invited to submit applications for research grants to undertake basic or applied medical and veterinary research in the field of:

- New vaccines or new methods of vaccination within the framework of infectious and transmissible diseases aiming to benefit both human beings and animals.

Particular attention will be given to projects displaying positive impact on the environment and developing countries, clear and economically acceptable objectives, and collaboration between **Veterinary and Human Research**.

A minimum of two Grants of \$ U.S. 25,000 each will be awarded for one year, beginning in June 1997.

The deadline for submission of your proposal is **January 31, 1997**.

**Orientation Committee**

**Fondation Pierre Richard Dick - Virbac**

**B.P. 305, 06514 CARROS Cedex, FRANCE**

**Tel: 33 4 92 08 72 49 Fax: 33 4 92 08 72 82**

**PLEASE CONTACT US QUICKLY FOR AN APPLICATION FORM**

## Sultan Qaboos University - Sultanate of Oman COLLEGE OF AGRICULTURE

Sultan Qaboos University, the National University of the Sultanate of Oman, invites applications for the position of Water Scientist/Hydrologist (Full, Associate or Assistant Professor) in the Department of Soil and Water Sciences, College of Agriculture.

The Department of Soil and Water Sciences offers Bachelor's and Master's of Science Degrees in Soil and Water Management and a Bachelor of Science Degree in Water Technology for citizens of the Sultanate of Oman. Currently, we have 8 academic staff and 9 support staff. We are looking for an individual to help us teach courses and to conduct research related to the behavior and supply of water in natural systems. We are primarily interested in scientists trained in water resources and in soil-water phenomena of arid climates, including irrigation systems, with experience in analytical chemistry. The successful candidate will also help advise students, be involved in extension activities that benefit Oman, and disseminate research findings through active publication. Applicants should possess a Ph.D. in Water Resources, Hydrology, Soil and Water, or related fields from a reputable university, with professional credentials of a high order. In addition, the applicant should be sensitive to cultural diversity and be able to teach effectively in English, which is the language used for science-based courses throughout the University.

Apart from a very attractive tax-free base salary, the University offers free furnished accommodation, a two-year renewable employment contract with end of service gratuity, annual leave with return air tickets, and free medical treatment in Government Hospitals.

Interested candidates are requested to submit a letter of application and full C.V., quoting our Ref: ADV/AGRI/09/96, to:

**The Director, Personnel Affairs**

**Sultan Qaboos University**

**P.O. Box 50, Al-Khod - 123, Sultanate of Oman**

Closing date for application is 15 February 1997

or until a suitable candidate has been identified.



The Faculty of Science of the University of Zurich invites applications for the position of an

### ASSISTANT PROFESSOR IN MOLECULAR PLANT SYSTEMATICS (tenure track).

Zurich offers extensive plant collections in the Botanic Garden and Herbarium. The position includes teaching at undergraduate and graduate levels. The new professor will be responsible for establishing a research group. Collaboration with existing research groups in systematic botany and other fields of biology is expected. The successful candidate should acquire proficiency in German within two years.

Applications, with curriculum vitae, record of teaching and research activities, publication list, and copies of the three most important publications, should be sent by 15 December 1996 to

**Dekan**

**der Philosophischen Fakultät II**

**Prof. Dr. H. Haefner**

**Universität Zürich-Irchel**

**Winterthurerstrasse 190**

**CH-8057 Zürich**

**Switzerland**

**phone 0041 1 257 40 06**

**fax 0041 1 361 68 62**

For further information:

**Prof. Dr. Peter K. Endress**

**Institut für Systematische Botanik**

**Universität Zürich**

**Zollikerstrasse 107**

**CH-8008 Zürich**

**Switzerland**

**phone 0041 1 385 44 20/11**

**fax 0041 1 385 44 03**

**e-mail pendress@systbot.unizh.ch**

## SENIOR SCIENTISTS

Battelle, a world leader in delivering innovative solutions in research and technology development, is seeking motivated individuals for full-time Senior Scientist positions to work at a remote site located in Utah. Qualified candidates must be U.S. citizens, willing to work with hazardous chemicals, and have extensive laboratory experience and willingness to work with etiological agents in a BL3 facility. Applicants selected will be subject to a government security investigation and must meet eligibility requirements.

These positions require a Ph.D./M.D./D.V.M. in microbiology, immunology, biochemistry, biophysics, or a related field, at least 1 year of laboratory experience or 3 years of postdoctoral experience. Excellent written, verbal and interpersonal communication skills and previous experience writing and presenting reports, technical papers and briefings, and the ability to identify and recommend testing required and review and analyze available test operation data.

Battelle offers a competitive and comprehensive package of benefits and salary as well as opportunities for professional challenge and development. **Resumes will be scanned into a database. Mail or fax a cover letter and resume on plain white paper using standard type and fonts to: Battelle, Dept. #N76, 505 King Avenue, Columbus, OH 43201-2693. Fax (614)424-4643.** This position is located in Utah. Battelle is an Affirmative Action/Equal Opportunity Employer M/F/D/V.



### Plant Ecologist and Anatomist/Physiologist

The Biology Department of the University of Evansville invites applications for two **Assistant Professor** positions to start in August 1997. One position (tenure-track) is for a plant ecologist. Applicants are expected to have broad training in ecology and should be versed in plant taxonomy and systematics. We seek a colleague with a strong commitment to teaching who will teach ecology, plant taxonomy, general biology, and an additional course in his/her area of expertise. Candidate may participate in the University's World Cultures Program, the foundational series in the general education sequence. The successful candidate is expected to establish an active research program and supervise undergraduate research projects. The second position (3-year) is for an anatomist/physiologist. Applicants are expected to have broad training in anatomy and physiology and should be prepared to deliver courses in human anatomy and physiology for students preparing for careers in physical therapy and other health sciences. The successful candidate may be asked to teach a general biology course and to participate in the World Cultures Program. The successful candidate is also expected to supervise undergraduate research projects and to provide academic advisement. These positions require a Ph.D., and teaching and postdoctoral experience are preferred. Salaries competitive. Send a current curriculum vitae, transcripts, names and addresses of three references, and brief statements of: 1) undergraduate teaching experience and philosophy and 2) research interests and plans to: **Dr. Michael Cullen, Biology Department, University of Evansville, 1800 Lincoln Avenue, Evansville, IN 47722.** To ensure full consideration, all materials should arrive by January 10, 1997. *The University of Evansville is an Equal Opportunity and Affirmative Action Employer.*

## GLOBAL CAREER OPPORTUNITIES



### Royal College of Surgeons in Ireland

#### LECTURER IN PHARMACOLOGY

Applications are invited for this post which is tenable for a five year period. We are a group of basic and clinical scientists working in 3 areas; integrin activation and cell signalling; cyclooxygenase and eicosanoids; dopamine receptors in schizophrenia. The successful candidate will have a PhD or equivalent with postdoctoral training in gene regulation, signal transduction, protein chemistry, molecular biology or related topics who would compliment the ongoing funded project.

#### Application Procedure

Interested candidates should forward a detailed curriculum vitae (7 copies) together with names of two referees to arrive on/before 1st December, 1996 to:

Human Resources Dept.,  
Royal College of Surgeons in Ireland,  
123, St. Stephen's Green,  
Dublin 2,  
Ireland.

**RCSI is an equal opportunities employer**

#### French Académie des Sciences Professorships

The French Académie des Sciences, the Centre National de la Recherche Scientifique and Elf Aquitaine will open a limited number of one-year professorships for the fall 1997 to fall 1998 period. The positions are to be held in France at an academic institution or at an Elf laboratory, or both, and are reserved for research professionals at all levels, from Associate to Full Professor. They may be held in conjunction with a sabbatical leave.

They include benefits such as medical insurance and travel expenses of the candidate and his/her family, and depend upon the candidate's experience. Selection criteria include the quality of research achievements and the relevance of the proposed program to Elf research activities, namely:

- Earth Sciences, with emphasis on oil and gas exploration: geophysics, sedimentology, organic and mineral geochemistry, physics of hydrocarbons, including their interactions with rocks.
- Chemical Sciences, with emphasis on polymer sciences, halogen and thiochemistry, catalysis, photochemistry and process engineering research.
- Environmental Sciences, with emphasis on the evolution of the geosphere and biosphere due to human activities and the methodology of biological indicators.
- Life Sciences, with emphasis on the biochemistry of receptors as applied to the central nervous system, and cardiovascular, thrombotic, and degenerative diseases.

Prearranged agreements with French academic laboratories are eligible for these professorships and will be appreciated although not mandatory. Some preference will also be given to candidates whose research programs include significant interaction with Elf R&D staff. There are no citizenship restrictions. Mastery of French is not required, although some familiarity with French culture is expected to be helpful.

There is no application form. The proposals should include a detailed résumé, with name, address, and telephone and fax numbers; place, date of birth, and citizenship of the candidate and of his/her family members who would accompany him/her; description of the research project and any contacts with Elf Aquitaine or academic labs in France; possible partial financial support by the candidate's university. They should be sent before February 14, 1997:

For North America based candidates, to: **J. Bodelle, V.P. R&D, Elf Aquitaine, Inc., 1899 L Street, N.W., Suite 500, Washington, DC 20036. Fax: 202 872 8201.** For other candidates, to: **C. Jablon, Chief Scientist, Elf Aquitaine, DRTE, Tour Elf, Cedex 45, 92078 Paris, La Défense, France. Fax 1 47 44 44 94**

Some discussion with the candidates about the program may then be suggested by the selection committee before the final announcements scheduled for mid-May 1997 at the latest.

## CELLULAR AND MOLECULAR NEUROBIOLOGY

### Postdoctoral Positions

Postdoctoral positions are available at the Worcester Foundation for Biomedical Research to study cellular and molecular aspects of neurobiology. These positions are in part supported by an NIH Training Grant (R. Vallee, P.I.). The faculty and their research interests are:

**MICHELE JACOB:** Molecular mechanisms of neuronal synapse formation; viral-vector mediated gene transfer *in vivo*.

**DANIEL KILPATRICK:** Transcriptional regulation of neuronal differentiation; TrkA promoter regulation in neurons and neuroblastoma cells.

**STEPHEN LAMBERT:** Role of membrane-cytoskeleton interactions during axonal outgrowth and myelination.

**JOSÉ LEMOS:** Stimulus-secretion coupling at nerve terminals; mechanisms modulating neurotransmitter release.

**ROBERT O'CONNELL:** Neurobiology of quality perception in olfaction including stimulus detection, transduction, coding and behavior.

**ALONZO ROSS:** Molecular analysis of Trk and low-affinity NGF receptors, signal transduction, stem cells, neural tumors and differentiation.

**RICHARD VALLEE:** Microtubule motor proteins; synaptic GTPase dynamin.

**DAVID WOLF:** Photochemical analysis of TrkA and low affinity NGF receptor interactions.

**ZUOSHANG XU:** Neurofilaments, SOD1 and motor neuron disease.

We are a private, basic research institute on a suburban campus 10 minutes from the University of Massachusetts Medical Center and 45 minutes west of Boston.

Send curriculum vitae and names of references to the faculty member(s) of interest, c/o: **Human Resources, Worcester Foundation for Biomedical Research, 222 Maple Avenue, Shrewsbury, MA 01545, USA. For more information visit our web site at <http://www.wfbr.edu/>. EOE/AA/M/F/H.**



**WORCESTER FOUNDATION  
FOR BIOMEDICAL RESEARCH**

## MOLECULAR NEUROSCIENTISTS

Zeneca Pharmaceuticals is a worldwide leader in the discovery, development and marketing of innovative pharmaceuticals. As part of an expansion of our U.S. Research capabilities, we have opportunities for molecular neuroscientists to lead bioscience teams aimed at discovering novel therapies for neurodegenerative diseases.

Qualified candidates will have a PhD and at least 2 years' postdoctoral experience in neuroscience, including research expertise in molecular and cell biology. Experience in neuroimmunology or neurodegeneration will be an advantage.

We offer an excellent compensation and flexible benefits program, including relocation, and opportunities for growth with one of the world's leading research organizations.

For confidential consideration, please send your resume with salary requirements to: **Daria Wilson, Human Resources, Code 96-001, Zeneca Pharmaceuticals, 1800 Concord Pike, P.O. Box 15437, Wilmington, DE 19850-5437.** An Equal Opportunity Employer M/F.

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**SangStat Medical Corporation** is a biopharmaceutical company developing novel therapeutic and monitoring products to improve the outcome of organ transplantation. To expand our research capabilities, we are looking for a highly motivated individual to fill the following position:

### Senior Scientist

Qualified candidates will have 4-8 years of postdoctoral experience in peptide chemistry and phage display technology. As part of a team they will work on the development of novel immunotherapies for the elimination of unwanted target cells.

We offer an energetic environment in the San Francisco Bay Area and an opportunity for research in a rapidly changing field. Competitive salary and benefits. *EEO employer.* Send or Fax your resume to V.P. of Research at:

**1505-B Adams Drive  
Menlo Park, CA 94025  
Telephone: 415.328.0300  
Facsimile: 415.328.8892**



**SangStat Medical Corporation**



### FACULTY POSITION MOLECULAR GENETICS THE OHIO STATE UNIVERSITY

The Department of Molecular Genetics at The Ohio State University is initiating a search for a tenure track faculty member at the Assistant Professor level. Candidates with exceptional qualifications may also be considered at the Associate Professor level. We are interested in applicants who are using molecular genetic approaches to study important topics in molecular, cell, and developmental biology of eukaryotic organisms. A highly competitive recruiting package is available, which includes an attractive salary, newly renovated laboratory space, and substantial funds for equipment and initial operating expenses. The Ohio State University is undergoing a major expansion in the Molecular Life Sciences, which will involve the hiring of about 30 new faculty over the next few years. The Department of Molecular Genetics is a young, vigorous department that is playing a central role in this expansion. The Ohio State University is the flagship institution of the state's higher education system. It is located in the state capital, Columbus, which is a growing, yet highly affordable, metropolitan area of about 1.3 million people. Columbus has been ranked by *Newsweek* as one of the country's best places to live and work.

Applications should include a detailed curriculum vitae, a description of research experience, and a statement of the nature of the planned independent research program. Applicants should also arrange to have at least three recommendation letters sent to the department. Applications will be accepted until a suitable candidate is hired. Review of applications will begin during January 1997. Information about our department and University can be obtained by contacting our web site: <http://www.biosci.ohio-state.edu/~molgen/molgen.html> or by calling our office at 614-292-8084. Application materials should be sent to: **Faculty Search Committee, Department of Molecular Genetics, The Ohio State University, 484 West 12th Avenue, Columbus, Ohio 43210.**

*OSU is an Equal Opportunity/Affirmative Action Employer.*



Microcide Pharmaceuticals, Inc. is seeking creative scientists to join our Discovery Biology group's efforts in target identification and high-throughput screening. Openings are currently available in the following areas:

**Senior Research Scientist** in molecular microbiology and microbial genetics. The selected individual will pursue cutting-edge molecular genetics, focusing on essential metabolic functions in gram-positive organisms such as *Staphylococcus aureus*. Qualified applicants will have a Ph.D. and at least 2 years of postdoctoral industrial experience, with extensive training in bacterial genetics and bacterial physiology. (**Job Code: EGP-1**)

**Research Associate** positions are available to qualified M.S. or B.S. applicants with research experience in bacterial genetics, molecular biology, and/or bacterial metabolism and physiology. (**Job Code: EGP-RA1**)

**HTS Research Associate** with a B.S. or M.S. in biology, biochemistry, or molecular biology and minimum of 3 years of laboratory experience in a high throughput screening/automation environment. Skills in assay development, bacterial or fungal genetics, or DNA methodologies are desired. Experience with MAC, PC, and UNIX systems a plus. (**Job Code: HTS-714.2**)

Excellent oral/written communication skills, and the ability to plan, design, and conduct experiments in a highly interactive work environment are required. Successful applicants with initiative, flexibility, and energy will have the opportunity to work both independently and as part of a multidisciplinary team involved in the discovery of novel antimicrobial agents.

Submit/fax resume to:

**Microcide Pharmaceuticals, Inc.**  
Discovery Biology  
850 Maude Avenue  
Mountain View, CA 94043  
415/428-3534

#### LOYOLA COLLEGE IN MARYLAND

##### Two Tenure-Track Assistant Professor Positions in Biology

Applications are invited for two entry-level, tenure-track assistant professor positions in the Biology Department at Loyola College in Maryland. For the first position, we are seeking a person who will teach a sophomore-level course in cell and molecular biology, an upper-level developmental biology course, and another upper-level course. Research interests should be in the area of developmental biology (plant or animal). The second position will be filled by a person who will teach an introductory ecology and evolution course, analysis of biological data, and an upper-level plant course. Research interests should be in the area of plant ecology. A Ph.D. is required. Previous teaching experience is required. Applicants must possess a strong commitment to teaching and are expected to develop a research program that fosters undergraduate research activities. Additional information about Loyola College is available online at <http://www.loyola.edu>. Applications should be received by December 31, 1996. Please send a curriculum vitae, the names of three references, a statement of your teaching experience and approach to teaching, and your research plans and how they will include undergraduate students to: **Dr. Donald Keefer, Biology Department, Loyola College, 4501 N. Charles Street, Baltimore, MD 21210.**

##### Two Tenure-Track Assistant Professorships in Chemistry

Loyola College in Maryland seeks applications from individuals with demonstrated potential in teaching and research for two entry-level, tenure-track appointments beginning Fall 1997. One position requires a Ph.D. with significant training in biophysical chemistry. Teaching duties will include general chemistry and physical chemistry. Candidates with interests in experimental biochemical research and a background in molecular modeling are preferred. The other position requires a Ph.D. with significant training in biochemistry. Teaching duties will include general chemistry and biochemistry for students in biology and chemistry. Candidates with research interests in experimental biological chemistry are preferred. Loyola is a medium sized, very selective Jesuit university that emphasizes teaching and the liberal arts (see <http://www.loyola.edu>). The Chemistry Department is ACS-certified and is housed in a modern science center with excellent laboratory facilities, instrumentation, and computing capabilities. Submit curriculum vitae, transcripts, statement of research objectives, and outline of teaching interests, and arrange to have three letters of recommendation sent to: **Dr. Timothy J. McNeese, Chair, Department of Chemistry, Loyola College, 4501 N. Charles Street, Baltimore, MD 21210-2699.** Applications should be received by December 31, 1996. *Loyola College is an equal opportunity/affirmative action employer committed to a diversified workforce.*

# Imagine The Possibilities

At Berlex, we've built our reputation on FDA-approved product successes and a proven track record in the pharmaceutical industry. Currently, our Cardiovascular Research Department is seeking a Postdoctoral Fellow to join us in the beautiful San Francisco Bay Area.

## SCIENTIST/PROTEIN CHEMIST

As part of our Protein Biochemistry Department, you will collaborate with Discovery Research Scientists to identify and validate protein-based drug targets. Specifically, you will evaluate therapeutic protein targets identified by novel gene expression associated with diseases. This will require the ability to work effectively in a multidisciplinary team supported by a background in protein chemistry and enzymology; experience in protein engineering utilizing phage display and oligonucleotide directed mutagenesis is desirable. Along with a PhD and at least 2-3 years' experience in enzymology and protein engineering, you must have excellent written and oral communication skills and a record of productivity evidenced by publications in peer reviewed journals.

As a US subsidiary of an international Fortune 500 company, Berlex is proud to offer competitive salaries and a generous benefits package. To apply, send your CV/resume to: **BERLEX, HUMAN RESOURCES EMPLOYMENT, 15049 SAN PABLO AVE., RICHMOND, CA 94804-0099.** Principals only, please. EOE.

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## GRADUATE PROGRAM

### LIFE SCIENCES CONSORTIUM GRADUATE PROGRAM IN INTEGRATIVE BIOSCIENCES

The Pennsylvania State University's Life Sciences Consortium (LSC) is pleased to announce a new, interdisciplinary graduate program in Integrative Biosciences. This program spans the Colleges of Agricultural Sciences, Engineering, Health and Human Development, and Liberal Arts; the Eberly College of Science on the University Park campus; and the College of Medicine in Hershey. The goal of this program is to foster collaborative, innovative research in the life sciences and to provide unique training experiences for graduate students.

#### Options include:

- *Biomolecular Transport Dynamics*
- *Cell and Developmental Biology*
- *Chemical Biology*
- *Ecological and Molecular Plant Physiology*
- *Molecular Medicine*
- *Neuroscience*
- *Nutritional Sciences*

Fellowships are available to candidates with outstanding credentials. Information and applications can be obtained from the LSC web site: [www.lsc.psu.edu/GradEd.html](http://www.lsc.psu.edu/GradEd.html) or from **Janice Kennedy, 519 Wartik Laboratory, The Pennsylvania State University, University Park, PA 16802.** E-mail address: [lsgradadm@mail.biotech.psu.edu](mailto:lsgradadm@mail.biotech.psu.edu) and phone: (814) 865-3155.

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

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### SENIOR RESEARCH PHARMACOLOGIST

We seek an individual with either a Ph.D. degree in Pharmacology or related life sciences with considerable experience using in vitro assay techniques. The selected individual will contribute to ongoing research efforts in drug receptor and ion channel pharmacology. Knowledge of classical pharmacological techniques including isolated tissue bioassays would be essential. Experience handling small animals or animal surgery would be assets. Familiarity with computer-based data analysis and databases for both biological and chemical data are desirable.

### ASSISTANT PHARMACOLOGIST

A second individual will assist the same research team in biochemical and molecular pharmacology techniques. Knowledge of receptor binding or radio immunoassay techniques would be required for this individual with a M.S. degree in Pharmacology, Biochemistry or a related life science, or with a B.S. degree and similar background. Knowledge of signal transduction or molecular biology techniques with 7TM receptors or ion channels would be advantageous. Familiarity with computer-based data analysis and databases for both biological and chemical data are desirable.

With over 50,000 employees worldwide and more than \$10 billion in annual sales, we've established ourselves as a respected global business and innovative leader in the changing health care industry. For consideration, please send your resume with salary history to: Abbott Laboratories, Job #96-NCW-2592, D583, AP9A, 100 Abbott Park Rd., Abbott Park, IL 60064. Abbott is an Affirmative Action Employer/Smoke-Free Environment.

**ABBOTT  
LABORATORIES**  
Quality Health Care Worldwide



### Senior Scientist and Research Assistant Positions Drug Discovery

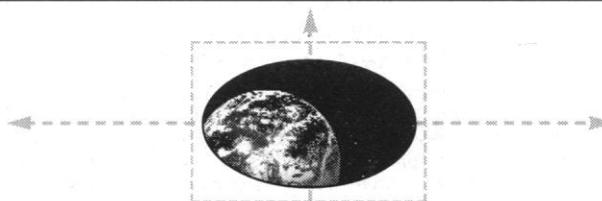
**Microcide Pharmaceuticals, Inc.**, an innovative S.F. Bay Area biopharmaceutical company focused on the discovery and development of novel antimicrobial agents for the treatment of human infectious diseases, is seeking highly motivated individuals to join its growing scientific team in the following positions #721:

**Senior Research Scientist**—Applicants should have a Ph.D. in molecular biology and experience in fungal genetics. Additional skills in cell biology, biochemistry, and bioinformatics are a definite plus. **Research Assistants**—Qualified applicants should have a B.A./B.S. or M.A./M.S. as well as research experience in bacterial or fungal genetics, and in molecular biology.

Requires excellent oral/written communication skills with the ability to work both independently and as part of a multidisciplinary team. We have exciting opportunities for persons with initiative, flexibility, and energy to contribute to a rapid growth start-up organization. Send/fax CV:

**MICROCIDE PHARMACEUTICALS**

Attn: Hiring Manager, AF  
Human Resources  
850 Maude Avenue  
Mountain View, CA 94043  
fax 415/428-3534 — EOE



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As a subsidiary of the Fortune 100 Monsanto Corporation, Ceregen is a world leader in the discovery and development of agricultural products based on advanced chemistry and biotechnology.

### RESEARCH BIOCHEMIST

We are currently seeking a creative scientist to participate in the discovery and characterization of novel products for disease control in agricultural crops. The successful candidate will be part of a talented, multidisciplinary team focused on molecular targets relevant to the discovery of small molecules for plant protection. You will provide leadership for the development, characterization and validation of novel enzyme, receptor binding and whole cell assays for screening chemical libraries.

A Ph.D. in Biochemistry, Enzymology or related discipline with 3-5 years practical, post-doctoral experience is required. Experience in enzyme kinetics, protein purification and molecular biology of regulatory enzymes is essential, and a working understanding of mycology and/or plant pathology is preferred. Demonstrated experience in the development of anti-fungal assays is advantageous. All applicants should possess excellent written and oral communication skills, and people skills compatible with a team environment.

The only thing as diverse as our business units is our team of talented professionals. To join them in a unique environment that's specifically designed for communication and innovation, send a resume to: **The Monsanto Company, LMH, Job Code # RBio, 800 N. Lindbergh Blvd., Mail Zone C2NB, St. Louis, MO 63167.** EEO/AA Employer M/F/D/V.

**CEREGEN**  
INGENUITY IN AGRICULTURE

### THE UNIVERSITY OF TEXAS AT EL PASO DEAN OF THE COLLEGE OF SCIENCE

Nominations and applications are sought for an energetic leader to serve as Dean of the College of Science at the University of Texas at El Paso. The successful candidate will be responsible for fostering excellence in undergraduate instruction and research, cross-disciplinary and cross-college initiatives, and innovative graduate programs. Outstanding communication skills, collaborative spirit, and vigorous attention to our regional mission are required.

Designated by the National Science Foundation as a Model Institution for Excellence, UTEP serves a student population of about 16,300 students, 65% Hispanic, and is fully engaged in curriculum reform and enhancement of learning environments. In a large, binational metropolitan setting on the U.S.-Mexico border, UTEP is uniquely positioned for leadership on border-related challenges in health, environment, and economic development.

The College of Science comprises five academic departments, Biological Sciences, Chemistry, Geological Sciences, Mathematical Sciences, and Physics. It offers a wide variety of baccalaureate, master's, and doctoral programs; provides leadership for precollege teaching preparation in science and mathematics; and supports many active, externally funded research programs. It is a national leader in inclusion of undergraduates in funded research.

Candidates must have an earned doctorate, be eligible for a faculty appointment as a full professor in an existing academic discipline, have relevant administrative experience, have a consistent record of scholarly activities including university teaching experience and research, and must demonstrate commitment to undergraduate education as well as success in obtaining extramural funding. For more information, review the UTEP website at <http://www.utep.edu>. Screening of applications will begin on December 1, 1996, and applications will be accepted until the position is filled. The position is available to start September, 1997. Send nomination letters or, to apply, forward curriculum vitae, letter of application highlighting professional accomplishments and interests, and a list of four current references, to: **Dr. Julie P. Sanford, Chair, College of Science Dean Search Committee, Room 209 Administration Building, The University of Texas at El Paso, El Paso, Texas 79968-0587.** *The University of Texas at El Paso does not discriminate on the basis of race, color, national origin, sex, religion, age or disability in employment or the provision of services.*

**DIRECTOR  
CENTER FOR NEUROSCIENCE  
UNIVERSITY OF CALIFORNIA, DAVIS**

The University of California, Davis, invites applications and nominations for the position of director of the Center for Neuroscience, a campuswide unit involving faculty from four different colleges, schools, and divisions at UC Davis. The Center provides research space, seminar programs, and administrative support for faculty members, graduate students, postdoctoral associates, and distinguished visitors. The Davis campus has made a major commitment to the development of neuroscience through the Center. Ten new faculty members have been hired over the past four years and additional recruitments are planned.

We seek as director an outstanding individual with interests and abilities that are sufficiently broad to provide intellectual and administrative leadership for all neuroscientists at UC Davis. The Center has significant strengths in systems and cognitive neuroscience and the director is expected to provide direct leadership for these groups. The specific area of the director's research could be in any area of neuroscience ranging from a systems approach to cellular or molecular neuroscience.

The director's position involves a faculty appointment at the professorial level in an academic department in one of the colleges, schools, or divisions with programs in neuroscience. The appointment carries an administrative stipend.

To ensure fullest consideration, applicants should send a letter of interest or nomination, a curriculum vitae, and the names of at least three references by March 3, 1997 to:

**Dr. Robert T. Knight, Chair  
Director Search Committee  
Center for Neuroscience  
University of California  
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**POLICY  
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The American Association for the Advancement of Science (AAAS) is seeking an innovative, experienced Program Director to launch and run a major new activity in support of the National Science Foundation's EPSCoR program (Experimental Program to Stimulate Competitive Research). EPSCoR provides merit-reviewed grants to help develop capabilities of research institutions in states that have historically received relatively little federal R&D funding. Reporting to the directorate head, the Program Director will provide day to day management of the AAAS effort and its several program elements.

Major responsibilities will include conducting a series of leadership development conferences in various parts of the US; creating and managing a technical assistance service to provide expert consultants to institutions in the EPSCoR states; overseeing subcontract studies; serving as staff officer to the project's advisory committee; managing financial and budget resources; writing project reports; organizing meetings and conferences; making presentations and participating in panels; staying abreast of key policy issues; serving as an advocate for program issues at professional and government meetings. **This is a full-time regular position for an initial period of three years; continuation beyond the three-year grant period will be contingent on availability of funding.**

Qualifications: Master's degree in science, engineering, science policy, or related field (Ph.D. preferred); seven to ten years of experience in research policy and/or administration (experience in and familiarity with academic research, administration, and S&T policy helpful); demonstrated managerial, communication, and interpersonal skills; proposal writing, budget management, and supervisory experience; and ability to handle multiple tasks under deadline pressure. Travel required. Congenial, stimulating professional environment; excellent benefits. Send cover letter with resume and salary requirements to:

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**POSTDOCTORAL FELLOW  
University of California, San Francisco (UCSF)**

**POSTDOCTORAL POSITIONS** available immediately to study molecular aspects of CNS plasticity in alcohol and drug abuse. Ongoing project areas include gene isolation, transcriptional regulation, protein trafficking, and signal transduction. Experience in molecular or cell biology is required. Applicants must have a Ph.D. in biochemistry, molecular biology, or related field. Send curriculum vitae, brief summary of research experience, and three letters of reference to: Michael F. Miles, M.D., Ph.D., University of California, Department of Neurology, Building 1, Room 101, 1001 Potrero Avenue, San Francisco, CA 94110. *Affirmative Action/Equal Opportunity Employer.*

**DOCTOR OF ARTS IN BIOLOGICAL  
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**FELLOWSHIPS** are available for persons interested in the D.A. degree in biological sciences. The program stresses preparation for undergraduate teaching at colleges and universities. Applicants must hold a Master's degree in some area of biology. Deadline for receipt of application is 1 March 1997.

For more information contact: Chairman D.A. Committee, Department of Biological Sciences, Idaho State University, Pocatello, ID 83209. *An Equal Opportunity Employer.*

**POSTDOCTORAL POSITIONS** to study the regulation of herpes virus gene expression *in vitro* and *in vivo*. The studies may include structure/function analysis of the viral regulatory proteins, the biochemistry of virus/host interactions, or the involvement of viral mechanisms in the alteration of host cell metabolism. A position is also available to generate specific HSV mutants for gene transfer applications. Applicants should possess a doctoral degree in molecular genetics, biochemistry, or virology. Applicants should send a current curriculum vitae and list of references to: Neal DeLuca, Associate Professor, Department of Molecular Genetics and Biochemistry, E1257 Biomedical Science Tower, University of Pittsburgh School of Medicine, Pittsburgh, PA 15261.

**POSITIONS OPEN**

**POSTDOCTORAL** *In vitro* evolution of enzymes. Ph.D. in biochemistry or molecular biology and experience with proteins. Send résumé and names of three references to: Prof. F. H. Arnold 210-41, California Institute of Technology, Pasadena, CA 91125. *Caltech is an Equal Opportunity/Affirmative Action Employer.*

A **POSTDOCTORAL POSITION** is available immediately to study the role of Wnt/Wingless signal transduction in patterning the *Drosophila* embryo. We are studying the response of epidermal cells to mutant forms of Wg (see Bejsovec and Wieschaus, *Genetics* 139:309-320, 1995) and characterizing other molecules that interact with the Wg signaling pathway. Please send curriculum vitae and three letters of reference to: Dr. Amy Bejsovec, Department of Biochemistry, Molecular Biology and Cell Biology, Northwestern University, 2153 Sheridan Road, Evanston, IL 60208-3500. FAX: 847-467-1380.

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**POSTDOCTORAL POSITIONS** to engineer enzymes involved in the degradation of pollutants available immediately in Quebec City/Montreal in a major collaboration to improve bioremediation strategies. Individuals with experience in protein purification, enzymology, and/or microbial genetics preferred. Send curriculum vitae and three references to: Dr. Lindsay D. Eltis, Pavillon Marchand, Laval University, Ste-Foy, PQ, G1K 7P4 Canada. FAX: 418-656-7176; Email: leltis@rsvs.ulaval.ca; http://www.fsg.ulaval.ca/bcm/eltis.html.

**POSITIONS OPEN**

**PROTEIN BIOGENESIS**

**TWO POSTDOCTORAL** positions available immediately to study cellular protein folding and degradation pathways. Studies to include the role of molecular chaperones in protein biogenesis and acquisition of native structure (see *Science*, 272:1497-1502, 1996; *Nature*, 370:111-117, 1994); the identification of molecular machinery responsible for recognizing and degrading misfolded and mutant proteins; the relationship between protein biosynthesis and degradation pathways; and the relationship between protein misfolding and human genetic disease (see *Cell*, 83:121-127, 1995; *JBC*, 271:635-8, 1996). Candidates with strong background in biochemistry or cell biology should send curriculum vitae and names and telephone numbers of three references to: Ron R. Kopito, Ph.D. or Judith Frydman, Ph.D., Department of Biological Sciences, Stanford University, Stanford, CA 94305-5020.

**POSTDOCTORAL/RESEARCH ASSOCIATES**

Two two-year NIH-funded positions are available in the Laboratory of Dr. Richard Veenstra of the Department of Pharmacology to study the conductance and permeability properties of connexin-specific gap junction channels. Whole cell patch clamp recording and quantitative fluorescence assays are used to determine the unique channel properties of distinct native and mutagenized connexin proteins. Send curriculum vitae and three letters of reference to: Department G, Personnel Office, Number 3573/3606, SUNY Health Science Center at Syracuse, 750 East Adams Street, Syracuse, NY 13210. *An Affirmative Action/Equal Employment Opportunity/ADA Employer, committed to excellence through diversity.*

**POSTDOCTORAL FELLOW**

Position available beginning February 1, 1997, to study molecular genetics of endometrial and ovarian cancers. Experience required in PCR-based procedures, mutation analysis, sequencing, and tissue culture techniques. Please send curriculum vitae and three letters of reference to: Gynecologic Oncology Research Laboratory, Department of Surgery, Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, New York, NY 10021. *Memorial Sloan-Kettering Cancer Center is an Equal Opportunity Employer.*

## POSITIONS OPEN

**POSTDOCTORAL POSITION** available to study regulation of cytoskeletal and extracellular matrix protein expression in renal glomerular mesangial cells. Training or experience in cellular and molecular biological methods is required. Interested applicants can send curriculum vitae and names of references to: **William F. Glass II, M.D./Ph.D.**, Department of Pathology, Eastern Virginia Medical School, P.O. Box 1980, 700 Olney Road, Norfolk, VA 23501-1980. Email: lbh@borg.evms.edu.

**POSTDOCTORAL POSITION** available to study molecular/cellular biology of long-term neuronal plasticity. Investigations focus on novel immediate early genes that target to synaptic structures and examine their function at cellular and system levels. Send curriculum vitae and references to: **Dr. Paul Worley**, Department of Neuroscience, The Johns Hopkins School of Medicine, 905 Hunterian Building, 725 North Wolfe Street, Baltimore, MD 21205. Email: paul.worley@gmail.bs.jhu.edu.

**POSTDOCTORAL POSITION** available immediately for NIH-supported investigation into the neural mechanisms of taste-guided behavior in rodents. Recent Ph.D. with expertise in electrophysiological recording and behavioral techniques preferred. Send curriculum vitae and three letters of reference to: **Dr. Reilly**, Department of Psychology (M/C 285), University of Illinois at Chicago, 1007 West Harrison, Chicago, IL 60607. Affirmative Action/Equal Opportunity Employer.

## MEETING

### MATHEMATICS AND MOLECULAR BIOLOGY V

"Statistics and Inference in Molecular Biology"

Santa Fe, New Mexico  
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Abstract deadline: December 1, 1996

For complete information:

University of California at Berkeley  
Program in Math and Molecular Biology  
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Berkeley, CA 94720-3206  
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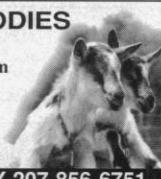
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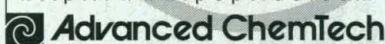
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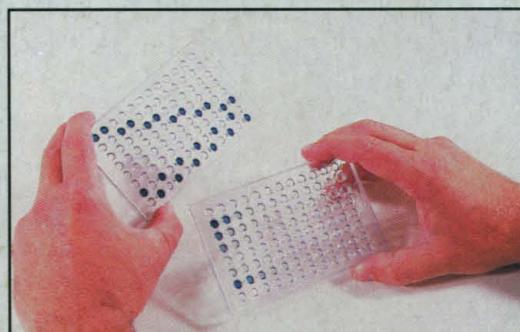
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