ids. The unit offers a swingout rotor that holds microplates as well as a wide selection of other rotor types. Designed and manufactured to be completely airtight, the cast aluminum vacuum chamber has a thick, clear plastic lid. Centrifuge surfaces are treated with oven-baked, corrosion-resistant powder paint to prevent problems associated with using aggressive solvents or solutions. Integrated Separation Systems. Circle 143.

Microdialysis Syringe Pump
The SP101i infusion pump is for use in microdialysis experiments. Ultrafine syringe movements of as little as 0.03 μl/hour allow microperfusion for an extended period of time. The digital display prompts the user through set-up and provides easy-to-read real-time readings. World Precision Instruments. Circle 144.

Terminator Cycle Sequencing Kit
The Thermo Sequenase radiolabeled terminator cycle sequencing kit makes performance of difficult sequencing tasks such as heterozygote analysis routine. The kit combines Redivue 33P-labeled dideoxynucleotide (ddNTP) terminators with Thermo Sequenase, Amersham's novel thermostable DNA polymerase. The new terminators are more efficient than other labeled nucleotides because they specifically label only properly terminated DNA chains. Because prematurely terminated chains are not labeled, "stop" artifacts and most background bands are eliminated. Mixed population DNA sequences, such as those found in heterozygotes, are often difficult to interpret because of background and uneven bands on conventional cycle sequencing gels. Thermo Sequenase overcomes this problem because it is much more efficient at incorporating ddNTPs. Amersham Life Science. Circle 145.

PCR Prep Station
The PCR Prep Station is a compact, low-cost, polymerase chain reaction (PCR) work environment that provides laminar flow protection and ultraviolet (UV) lighting to prevent the contamination of nucleic acid samples by airborne particulates of earlier experiments. UV lighting inactivates all DNA and RNA contamination within minutes to ensure reliable results during sample preparation for nucleic acid amplification. Air is filtered through both a prefilter and a high-efficiency particulate filter for maximum sterility. An open, sloped design allows inherent void volume of the media to hold all contaminants. The combination of high efficiency and elevated dirt-holding capacity makes the filters fit for applications requiring high-contaminant removal, such as polymer coatings, cell harvesting, fermentation clarification, and specialty inks and dyes. Osmonics. Circle 147.

Filters Increase Media Loading
The semi-crossflow design of SPIRALTEK rolled filters allows contaminants to be swept across the media surface and held in nonporous sections of the filter. Test data indicate that this unique design results in six times more dirt-holding capacity per unit area of filter media compared with conventional pleated and depth filters, which rely on the

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CarboPac PA10 & Trap Columns describes anion-exchange columns designed for the quantitative determination of mono- and disaccharides using pulsed amperometric detection. The columns eliminate interference from oxygen, lower detection limits, and decrease run times. Dionex. Circle 149.

CZESEP Capillary Electrophoresis Columns describes a diverse range of these columns and related products. Phenomenex. Circle 150.
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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.
Announcement to Clinical Researchers:
Grant Program

Molecular Devices Corporation offers a limited number of equipment grants to both U.S. and International academic/government/hospital institutions performing clinical research. The intent of this grant program is to provide researchers access to Cytosensor® Microphysiometer technology at a substantially reduced cost, thereby enabling them to make novel discoveries using this System, with the ultimate goal of publication.

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

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<table>
<thead>
<tr>
<th>14C</th>
<th>3H</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>CAT #</th>
<th>COMPOUNDS (99% PURE)</th>
<th>QTY</th>
<th>NEN</th>
<th>AMSHM</th>
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<tr>
<td>ARC-290</td>
<td>Arachidonic acid, [1-14C]</td>
<td>50 µCi</td>
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<td>$960</td>
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<td>ART-620</td>
<td>BZDC-NHS [3H]</td>
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<td>ART-103</td>
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<td>ARC-112</td>
<td>Deoxy-D-glucose, 2-[14C(U)]</td>
<td>250 µCi</td>
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<td>ARC-460</td>
<td>Dihydrosphingosine [4,5-3H], D-ery</td>
<td>250 µCi</td>
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<td>ART-618</td>
<td>Dihydrosphingosine [3H] 1-PO4</td>
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<td>ART-396</td>
<td>Farnesol, [3-1H]</td>
<td>250 µCi</td>
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<td>ARC-629</td>
<td>Farnesol, [1,2-14C]</td>
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<td>ART-324</td>
<td>Farnesyl pyrophosphate, [1-3H]</td>
<td>250 µCi</td>
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<td>Fluoro-deoxy-glucose [14C(U)]</td>
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<td>ART-105</td>
<td>Fluoro-deoxy-glucose, [3H]</td>
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<td>ART-428</td>
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<td>ART-394</td>
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<td>ART-348</td>
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<td>ARC-363</td>
<td>Geranyl pyrophosphate, [1-3H]</td>
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<td>ART-116</td>
<td>Inositol, myo [2-3H(N)]</td>
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<tr>
<td>ARC-541</td>
<td>Isopentenyl pyrophosphate [14C]</td>
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<tr>
<td>ART-315</td>
<td>Mevalonolactone, RS [5-3H]</td>
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<tr>
<td>ART-481</td>
<td>Sphingomyelin [methyl-3H]</td>
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<td>ARC-772</td>
<td>Sphingomyelin [methyl-14C]</td>
<td>10 µCi</td>
<td>$886</td>
<td>$888</td>
<td>$443</td>
</tr>
</tbody>
</table>

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Peter Koopman, Terry Magnuson

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Tobias Bonhoeffer, David Fitzpatrick

Arabidopsis Molecular Genetics
June 30 - July 20
June 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 Mazzotta, 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

Yeasts 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

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1997 Meetings

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

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Email: 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.

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**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

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**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.
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 ongoing 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.
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 Hallegoua Lorne Mendell
Paul Brehm Robert Hitzemann Larry Morin
John Cabot Maunec 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 Whittaker
Marian Evinger Gary Matthews Benjamin Walcott
Joseph Fecho David McKinnon Stephen Yauzulla
Michael Frohman Stuart McLaughlin

POSTDOCTORAL FELLOWSHIPS

STONY BROOK
STATE UNIVERSITY OF NEW YORK

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.cnsl.ualberta.ca/). 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

The University of Calgary
www.ucalgary.ca

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.

Petro Doroshenko, Ph.D.
Bin Hu, M.D., Ph.D.
Howard Lesiuik, M.D.
Catherine Morris, Ph.D.
Johnny Ngsee, Ph.D.
Leo Renaud, M.D., Ph.D.
Mario Tiberi, Ph.D.

Volume-regulated ion channels
Synaptic circuitry and function in auditory thalamus and cortex
Signal transduction in CNS ischemia
Mechanosensitive ion channels and membrane trafficking
Molecular mechanisms of synaptic transmission
CNS circuits regulating autonomic and neuroendocrine function
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 references, 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
LOEB RESEARCH INSTITUTE
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 Mays, 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) 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.

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 at 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 plant kingdom. 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 enrols 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 an upper-level course in the area of cellular/molecular biology.

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 plant kingdom. 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 enrols 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 an upper-level course in the area of cellular/molecular 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 is an Affirmative Action/Equal Opportunity Institution.
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

Consult our On-line Job Bulletin Board at: amgen.bio.com for information on other career opportunities available at Amgen. Principals only, please.

Visit our new web site on the World Wide Web at: www.amgen.com
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 Biological to begin in fall 1997, pending administration approval. The successful candidate will be expected to have a strong organismal background and to use molecular techniques wherever appropriate to the study of social behavior, evolution, and/or conservation biology. Teaching responsibilities include an introductory course in genetics and an upper-level undergraduate or graduate course in an area appropriate to the candidate’s qualifications. 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 in genomics and evolution biology, 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.

Application review will begin on December 1, 1996. Chairperson’s 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 externally 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 interests, research interests, addresses, and telephone and fax numbers of three individuals willing to submit letters of reference upon request. Application deadline is January 15, 1997. 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 Osteopathic Medicine invites 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 undergradu- ate teaching skills and experience, inclusive of advanced biochemistry and advanced inorganic chemistry. Research expertise, preferably in metalloproteinases, is also required, and at a level sufficiently 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. Application deadline is January 15, 1997. The position requires a Ph.D. plus five years of postdoctoral experience; 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 Goulting, Dean of the College, MacMurray College, 447 East College, Jacksonville, IL 62650. Affirmative Action/Equal Opportunity Employer.

BILOGY: ECOLOGY/ZOOLOGY

MacMurray College, a private United Methodist liberal arts college, has a TENURE-TRACK position commencing fall 1997. The position requires an outstanding teacher-scholar to 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 Goulting, Dean of the College, MacMurray College, 447 East College, Jacksonville, IL 62650. Affirmative Action/Equal Opportunity Employer.
**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, FNA 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 vivo 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 Pharmacokinetics, Pharmacometrics, 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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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 emphasis 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. AJS/CF6MH, 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.
The selected individual will establish and conduct an independent research program to develop a new prostatic cancer therapy. 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. Experience 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.: ADSCMHPH21

**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 5+ 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 transgene 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.: ADSCMHPH31

**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.
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 transgensics 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 transgensics 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 transgensics 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 for detailed information on other opportunities.

EEO/AA Employer M/F/D/V
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 academ-ic/industrial accomplishments. Must hold a doctoral degree in the physical or life sciences, and be eligible for appointment as a tenured As-sociate or Full Professor. May supervise an active research laboratory. Candidates with recog-nized 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.

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, tenure 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 state-ment of research interest and educational and administrative philosophy, and the names and addresses of five references to: Pro-fessor Joseph J.H. Ackerman, Biology Chair Search Committee, Campus Box 1134, Washington University, One Brookings Dr., St. Louis, MO 63130-4899 (email address: biologyrch@wuchem.wustl.edu). Washington Univer-sity is an Affirmative Action/Equal Op-pportunity Employer.

Wyeth-Ayerst Research

This is your opportunity to join Wyeth-Ayerst Research, a major division of Fortune 50 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, pharma-cology, biology, or related life sciences discipline and 5-10 years relevant experience, or an M.S. degree with 4-6 years related laboratory experi-ence. Candidates should be 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 an-sense oligonucleotides, and novel behavioral models, including those resulting from transgenic manipulations. You will also verify antisense treat-ments 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 communi-cation/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 pro-teins 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, elec-trophoretic techniques), and in the characterization of recombinant proteins (electrophoresis, immunoassay chromatography). Additional skills in characteri-zation 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 biolo-gists 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) 989-1854, e-mail: jobs@RAMAIL.L wyeth.com (ASCII format, no attachments, subject: resume). Principals Only. Equal Opportunity Employer, M/F/D/V.

COMMITTED TO WORLDWIDE LEADERSHIP IN HEALTHCARE

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, tenure 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 and addresses of five references to: Professor Joseph J.H. Ackerman, Biology Chair Search Committee, Campus Box 1134, Washington University, One Brookings Dr., St. Louis, MO 63130-4899 (email address: biologyrch@wuchem.wustl.edu). Washington University is an Affirmative Action/Equal Opportunity Employer.
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 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

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.
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 Intramural 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 premalignant conditions involving the gastrointestinal tract. Technical emphasis is placed on using novel RecA-and limited 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 Mulli 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 branched 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 (snRNPs) 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 snRNPs to learn more about the mechanisms by which the snRNPs 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 Prola)

- 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; and 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.

HERPETOLOGIST
Department of Organismic and Evolutionary Biology
HARVARD UNIVERSITY

The Department seeks a broadly based herpetologist whose work addresses the organ- ism and evolutionary biology of amphibians and/or reptiles. The appointment will be to a tenured professorship, and the incumbent will be expected to assume cura- torial responsibility of the herpetological collection in the Museum of Comparative Zo- ology. We are especially interested in indi- viduals with a productive record of high quality comparative research that is system- atic, morphological, or developmental in approach, and who have demonstrated interest and ability in teaching at the under- graduate 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. Lien
Chairman, Herpetology
4th Research Committee
Department of Organismic and Evolutionary Biology
Harvard University
26 Oxford Street
Cambridge, MA 02138

Harvard University is an Affirmative Ac- tion/Equal Opportunity Employer. We en- courage applications from women and mi- nority individuals.

PPL Therapeutics

Molecular Biologist - Stem Cell Research Group

PPL Therapeutics is a rapidly growing international biotechnol- ogy 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 in 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 24606

Ref PPL/

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 recomb- binant DNA techniques, tissue culture, and training in gene transfer techniques is desir- able.

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, Depart- ment of Internal Medicine, The University of Iowa College of Medicine, 200 EMBB, 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 us- ing contemporary molecular and cellular ap- proaches to analyze the role of signaling mecha- nisms during development and/or functional or- ganization of the nervous system are especially encouraged to apply. We are particularly inter- ested 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 teach- ing is encouraged and departmental faculty are members of the new interdisciplinary Neuro- science 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 Neu- robiology, University of Maryland School of Medicine, 685 West Baltimore Street, Balti- more, MD 21201

We are eager to diversify our faculty. Women and minorities are encouraged to apply. The Univer- sity 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

NIEHS/NIH is an Equal Opportunity Employer
HUMBOLDT STATE UNIVERSITY
Department of Biological Sciences

Tenure-Track Faculty Positions

Two Positions: Anatomy and Entomology

Asst. Professor: 100% University of Wisconsin-La Crosse

Applications must have a strong commitment to undergraduate microbial ecology. The successful candidate will be expected to develop a strong externally funded research program studying the cell or developmental biology, using an approach that is highly combined with structural and/or computational methods. The position requires a Ph.D. in biology, and at least two years of postdoctoral experience. The candidate will be provided with appropriate support to conduct research and teach. 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.

Assistant Professor: 100% University of Wisconsin-La Crosse

Applications must have a strong commitment to understanding microorganisms. The successful candidate will be expected to develop a strong externally funded research program studying the cell or developmental biology, using an approach that is highly combined with structural and/or computational methods. The position requires a Ph.D. in biology, and at least two years of postdoctoral experience. The candidate will be provided with appropriate support to conduct research and teach. 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.

Assistant Professor: Tenure-Track Position in Biotechnology/Industrial Microbiology

Salary: $37,140 to $46,812. Ph.D. required. Responsibilities include teaching biotechnology/industrial microbiology and introductory microbiology; student advising; directing undergraduate research; and participation in the Biotechnology Program and Environmental Biotechnology Institute. Strong background in natural product discovery, genetics of industrially important organisms, or molecular biology in industrial and environmental processes is required. Applications are accepted from any area of biological sciences and ecology and environmental science.

Assistant Professor: Tenure-Track Position in Computer Science

Salary: $40,000 to $45,000. Ph.D. required. Responsibilities include teaching computer science courses; student advising; directing graduate research; and participating in the Computer Science Program. Strong background in computer science and/or computer engineering is required. Applications are accepted from any area of computer science.

Assistant Professor: Tenure-Track Position in Computer Science

Salary: $40,000 to $45,000. Ph.D. required. Responsibilities include teaching computer science courses; student advising; directing graduate research; and participating in the Computer Science Program. Strong background in computer science and/or computer engineering is required. Applications are accepted from any area of computer science.

Assistant Professor: Tenure-Track Position in Biology

Salary: $37,140 to $46,812. Ph.D. required. Responsibilities include teaching biology, molecular biology, and physiology; student advising; directing undergraduate research; and participating in the Biology Program. Strong background in molecular biology, cell biology, and/or genetics is required. Applications are accepted from any area of biology.

Assistant Professor: Tenure-Track Position in Biology

Salary: $37,140 to $46,812. Ph.D. required. Responsibilities include teaching biology, molecular biology, and physiology; student advising; directing undergraduate research; and participating in the Biology Program. Strong background in molecular biology, cell biology, and/or genetics is required. Applications are accepted from any area of biology.

Assistant Professor: Tenure-Track Position in Biology

Salary: $37,140 to $46,812. Ph.D. required. Responsibilities include teaching biology, molecular biology, and physiology; student advising; directing undergraduate research; and participating in the Biology Program. Strong background in molecular biology, cell biology, and/or genetics is required. Applications are accepted from any area of biology.

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Assistant Professor: Tenure-Track Position in Biology

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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://bioeci.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.

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 Neurorpathology
- 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.

ANNOUNCEMENT

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 9816
10 CENTER DRIVE MSC 1800
BETHESDA, MD 20892-1800

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

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 permissve 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 immunosassays. 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. JH864, 6 Taft Court, Suite 300, Rockville, MD 20850. FAX: (301) 309-8499. EOE - We value cultural diversity in the workplace.

www.saic.com • An Employee-Owned Company

Science Applications International Corporation
ASSISTANT PROFESSORSHIP IN BIOLOGY

The Department of Biology at West Virginia University invites applications for a TENURE-TRACK position at the level of Assistant Professor in the areas 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. Experience and potential for establishing a strong, externally funded research program are important. 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. Experience and potential for establishing a strong, externally funded research program in the bioregulation of aging, bone, gene expression, or reproduction, but strong candidates in other areas will be considered. Please submit curriculum vitae, names and addresses of three referees, graduate transcripts, and a statement of teaching and research interests to: Search Committee, Biological Sciences Department, Peabody University, Greenscute, IN 46135. Review of application materials will begin on January 3, 1997. Women and minorities are encouraged to apply.

CITY 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 candidates with doctoral degree, postdoctoral experience, and a record of research achievement in one of the following areas: cell biology, microbiology, or development. Established research record and potential for securing external funding are expected for all positions. Responsibilities include the establishment of an active research program and teaching at the undergraduate and graduate levels. The initial rank of Associate Professor is expected for this position. Responsibilities will include teaching a course in microbiology sufficient for an academic year in one of the departments at the College, the College, and the College of Arts and Sciences, and a commitment to excellence in teaching and research. Applicants with strong teaching credentials and a commitment to excellence in teaching and research are encouraged to apply. The successful candidate must be prepared to teach in the graduate level of the Department of Biological Sciences, and the College, and the College of Arts and Sciences. The successful candidate will be expected to hold a Ph.D. in a field appropriate to the position. The successful candidate will be expected to teach in the graduate level of the Department of Biological Sciences, and the College, and the College of Arts and Sciences.

The University of Texas-Pan American (UTPA) invites applications for appointment to the position of DEAN of the College of Science and Engineering (CSEG). Qualifications for the position include: 1) a Ph.D. in an area of mathematics or science; 2) experience in administrative positions at the graduate level; 3) a strong research record; 4) a commitment to excellence in teaching and research; 5) the ability to provide leadership in the development of new programs and in securing extramural funding to support program goals. Salary: competitive and commensurate with credentials. The position is expected to begin on January 15, 1997. Applications are invited from all qualified individuals. The position is a 12-month, full-time appointment. The position is expected to begin on January 15, 1997. Women and minorities are encouraged to apply.

ANIMAL ECOLOGIST
University of Nebraska

The School of Biological Sciences invites applications for a tenure-tenured faculty position at the ASSISTANT PROFESSOR level. Applicants should possess research expertise in, and be committed to teaching important ecological processes at the physiological level. Candidates will be expected to develop a vigorous research program, preferably with a significant ecological component, and assure teaching responsibility in the area of aquatic ecosystems at the undergraduate level.

The Department of Oral Medicine and Diagnostic Sciences (OMDS) and the Center for Molecular Biology of Oral Diseases (CMBO) at the University of Chicago invite applications for two tenure-track faculty positions at the ASSISTANT PROFESSOR level in the areas of biological interactions of proteins and their biological effects on tissues. This is a continuing search with no closing date. Applications will be accepted until the positions are filled. The successful candidate will be expected to teach in the graduate level of the Department of Biological Sciences, and the College, and the College of Arts and Sciences. The successful candidate will be expected to teach in the graduate level of the Department of Biological Sciences, and the College, and the College of Arts and Sciences.

ASSISTANT/ASSOCIATE PROFESSOR—Small Grain Improvement, fiscal-year, tenure-track, 85% research (Montana Agricultural Experiment Station (MAES), a federal-state cooperative). 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. Indecisive date: January 15, 1997. Submit statement of research interests, curriculum vitae, and three letters of reference to: Professor Stephen R. Kellert, Yale University, School of Forestry and Environmental Studies, Science 118, New Haven, CT 06511. Email: skellert@minerva.cis.yale.edu. Yale University is an Equal Opportunity/Affirmative Action Employer. Women and minority group members are encouraged to apply.

CHIEF, LABORATORY OF PARASITIC BIOLOGY

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-15/13/15, $62,473 to $95,531). Applications are invited from candidates with demonstrated experience in the evaluation of the safety, efficacy, and public health implications of vaccines and therapeutic products in addition to strong leadership and management ability to effectively communicate with government, industry, and officials of the scientific and academic community. Applicants must have expertise in the design of clinical and animal research protocols and related publications in high impact journals. The position requires strong interpersonal skills and the ability to effectively communicate with government, industry, and officials of the scientific and academic community.

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 techniques is beneficial. Appropriate travel and relocation compensation package including housing and matching 401 (k). Forward your resume and current salary to: Microbiological Associates, Inc., 5945 Lackwood Road, Rockville, MD 20852. Fax: 301-738-1377. E-mail: Equal Opportunity Employer/Men/Women/Disability/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 scientific setting. The candidate must be a self-starter with superb time management skills. Additional skills include an understanding of biomedical sales or marketing experience is preferred. Extensive travel is expected. Please send your resume to: Suzanne Torrey, The Jackson Laboratory, 600 Main Street, Bar Harbor, ME 04609.

The UCLA Department of Pediatrics is seeking a molecular biologist to work on the development of new therapies for the treatment of cardiac physiology. Our current areas of exploration include transcriptional regulation of cardiac calcium channel isoforms, developmental regulation of G-protein coupled receptors, and the role of Na⁺-Ca²⁺ exchange in cardiac contraction. Salary dependent upon experience. Please send curriculum vitae, summary of research experience, and three letters of recommendation to: Clinical Assistant Professor, Pediatrics, M.D., Ph.D., UCLA Children's Hospital, Room B2-427 MDCC, Box 957182, Los Angeles, CA 90095-1782. 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 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.

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: 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.

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

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. Excellent junior 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. M.I.T. 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
PRODUCTS DEVELOPMENT ASSISTANT for data collection related to products function 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. Must be in the area of petroleum exploration, utilized 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 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 development and use of computer alternatives for the implementation of underground drilling of various geological and underground conditions, as well as six months of experience in quality control and drilling technology training, and usage of the applicable pool of alternatives. 40 hours per week; 7:30 a.m. to 4:00 p.m.; $34,295 per year. Please send resumes and proof of requirements in duplicate (no calls) to: ES Sp Prgms, Reference Number 1996, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216. These 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 flow. Must be an individual interested in seeking 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 new personal instrument segment 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 disciplines 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. Application: Christopher Simoenne, Assistant Director, Columbia University, Institute of Science and Engineering, 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. Analysis involves determination of origin 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 genetics and chemistry and successful completion of the California Standards for Criminalists. Starting salary ranges from $2,345–$4,405 and Junior Criminalists: $4,054–$4,896. To apply please contact: Janet Crocker, 4949 Broadway, Room 205, Sacramento, CA 95820. Phone: 916-227-3635. Exams are due by November 18, 1996.

TPALANTINE TROPICAL ECOLOGIST

The Institute of Pacific Islands Forestry, Pacific Southwest Research Station, USDA, seeks applicants for permanent position in Population/Community Ecology to examine invasion and impact of non-native plant species in Hawaii. Scientists who use an experimental approach to understanding population biology are preferred. The position is based in Hilo, Hawaii. Salary $41,296 plus 15% cost of living allowance. A vacancy announcement that includes qualifications, requirements, and procedures for application is requested from: PSW Research Station Personnel Office, Telephone: 510-599-6300. Inquiries about the position should be directed to: Dr. Dennis J. O’Dowd, Telephone: 808-880-3535 or Internet: o'dowd@dpc.sr.usda.gov. USDA is an Affirmative Action/Equal Opportunity Employer.

DNA SEQUENCING FACILITY MANAGER

DNA SEQUENCING FACILITY MANAGER is sought to operate a new sequencing facility at North Dakota State University. 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 LiCor 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 molecular biology or equivalent science required. Applications should send their curriculum vitae and names, addresses, and telephone numbers of three references to: Dr. Ros 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, data base 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 $35,000 with benefits. Send resume and names of three references to: Dr. Venigalla 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 in a research program conducted by Dr. Janet McCord, UMN. The position is available Jan. 1. Please send curriculum vitae and names of three references to: Dr. Dr. M. Sharma, Division of Veterinary Pathobiology, College of Veterinary Medicine, University of Minnesota, 13411 St. Anthony Road, University of Minnesota, St. Paul, MN 55108. Telephone: 612-625-2576; FAX: 612-625-8205; Email: sharm001@maroon.tc.umn.edu.

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

POSTDOCTORAL POSITIONS

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 effects which are pro-eutrophic for infants and children. The incumbent will utilize fluency in Japanese language in contract negotiations and other related interactions. Additional responsibilities include exchanging information with Japanese research group in Japan and understanding Japanese culture. 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 related research experience are desirable. Send resume with letter of interest to: Dr. Marilyn A. Stein, Director of Research, Columbus Research Center, 9460 Winton Road, Columbus, OH 43216.

POSTDOCTORAL POSITION

Integrative Neuroscience/Physiology

Individual interested in mechanisms underlying the coupling between regional neuronal activity, blood flow, oxygenation, 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, or trained on one or both is required. NIH stipend: $45,620. Send curriculum vitae, research interests, and names of three references to: Elliott 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.mcvw.edu. Title: Molecular Genetics of Affirmative Action Employer. Minority/Female/Disability/Veteran.

POSTDOCTORAL POSITIONS

Developmental Neurobiology

POSTDOCTORAL POSITIONS are immediately available to study 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 bulb and the olfactory lobe. 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, NIDDK/NIH, 5 Research Court, Rockville, MD 20850.

POSTDOCTORAL RESEARCH position is available to study biological cell lines derived from the simian 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 Future. For more information on the Center and its mission, please visit our web page at http://www.cep.pitt.edu. Applicants must hold a degree in engineering, physical sciences, or math. Experience or education beyond the above is desirable. Contact: Denise Merrin-Macey, EPF, 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 interdisciplinary 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 fellow only), vita, and 3 letters of reference to: Dr. Larry Lieberwirth, Program in Complex Systems and Brain Sciences, 777 Glades Road, Boca Raton, FL 33431. EOEAE.

Brain Research Institute
University of Zurich
Assistant Professor in Neurobiology/Neurochemistry
Applications are invited for a group leader position in the field of celllar or developmental neurobiology, with at least 5 years of postdoctoral experience. The successful applicant is expected to closely collaborate with research groups of the Zurich Neurosciences 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, Gloriavstr. 23, CH-8091 Zurich, fax +41-1-255 4565

FACULTY APPOINTMENTS
NATIONAL UNIVERSITY OF SINGAPORE
DEPARTMENT OF COMPUTATIONAL SCIENCE

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:

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

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, online library catalogue, CD-ROM databases, Video-on-Demand, InV, and Internet.

Application forms and further information may be obtained from:

The Director
The Director
Personnel Department
North America Office
National University of Singapore
National University of Singapore
10 Kent Ridge Crescent
55 East 59th Street
Singapore 119260
New York, N.Y. 10022, U.S.A.
Fax: +65 778 3948
Tel: +212 751 0331
Email: PERCNC@NUS.SG
Web Site: http://www.nus.sg/NUSinfo/Appoint/APPL1.HTM

Only shortlisted candidates will be notified.
RESEARCH ASSOCIATE POSITION
University of Minnesota Cancer Center

Announcing an immediately opening of a Research Associate position in the ACADMIc PROFESSIONAL series working in the new Cancer Research Building. The qualified applicant will have an M.D. and/or Ph.D. or the equivalent of two years postdoctoral experience with cell adhesion molecules and/or extracellular matrix. A working knowledge of molecular biology and tissue culture is also required. Being able 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 area for 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 UMC, 420 Delaware Street SE, Minneapolis, MN 55455-0992. 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 Neurodevelopment, Plasticity, and Regeneration at The Ohio State University. Positions are open for 1997-98 academic year. Familiarity with the use of manipulations for in vitro research on neural stem cells is required. Please send curriculum vitae and names of three references to: Dr. Michael W. Gross. The Ohio State University, 333 West 10th Avenue, Room 4072, Columbus, OH 43210. Telephone: 614-292-1781; Email: beattie.2@ouo.edu Potential applicants are encouraged to contact the program directors for specific fellowship opportunities at (http://www.med.osu.edu/Neuro/Neurohome.html). The Ohio University is an Equal Employment 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: msinfo@neurou.uche.edu; Web site: www.5.uche.edu/msinfo.

POSTDOCTORAL POSITION available to study the patterning of the inner ear. Studies focus on identifying genes expressed during early otocyst development and testing the function of these genes utilizing retroviral vectors and various transfection techniques. Candidates should have a Ph.D. or equivalent. Strong background in molecular and/or developmental biology preferred. Send curriculum vitae including a description of research experience, and names of three references to: Ralph A. Reisfeld, Ph.D., Department of Immunology, The Scripps Research Institute, 10850 North Torrey Pines Road, La Jolla, CA 92037. FAX: 619-784-2708.

POSTDOCTORAL POSITION available immediately for an immunologist to conduct in vivo studies of the cellular and molecular mechanisms involved in antigen-specific T cell responses induced by antibody-dependent cell mediated cytotoxicity. Experience in T cell immunology and signal transduction pathways is essential. Send a curriculum vitae, a list of publications, and three letters of reference to: Dr. Willem F. van den Brink, Ph.D., National Institute of Diabetes, Digestive and Kidney Diseases, National Institutes of Health, NIIDCD, NIH, 5 Research Court, Room 2834, Rockville, MD 20850. FAX: 301-402-3470; Email: dww@pop.niddk.nih.gov.

POSTDOCTORAL POLICY AND RESEARCH ASSOCIATE position available immediately for an immunologist to conduct in vivo studies of the cellular and molecular mechanisms involved in antigen-specific T cell responses induced by antibody-dependent cell mediated cytotoxicity. Experience in T cell immunology and signal transduction pathways is essential. Send a curriculum vitae, a list of publications, and three letters of reference to: Dr. Willem F. van den Brink, Ph.D., National Institute of Diabetes, Digestive and Kidney Diseases, National Institutes of Health, NIIDCD, NIH, 5 Research Court, Room 2834, Rockville, MD 20850. FAX: 301-402-3470; Email: dww@pop.niddk.nih.gov.

POSTDOCTORAL POSITION available immediately for a recent Ph.D. to study novel models of vision, including characterization of open genes and structure/function relationships of opsins using in vitro and in vivo approaches.

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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

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Sultan Qaboos University - Sultanate of Oman

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 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.

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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. Haefliger
Universität Zürich-Irchel
Winterthurerstrasse 190
CH-8057 Zürich
Switzerland
phone 0641 1 257 40 06
fax 0641 1 361 68 52

For further information:

Prof. Dr. Peter K. Endress
Institut für Systematische Botanik
Universität Zürich
Zollikerstrasse 107
CH-8092 Zürich
Switzerland
phone 0641 1 385 44 20/11
fax 0641 1 385 44 30
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., 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 in 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. #776, 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/DV.

Global Career Opportunities

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.

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 candidate's 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 their chemistry, 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 I Street, N.W., Suite 500, Washington, DC 20036. Fax: 202 572 8201. For other candidates, to: C. Jablon, Chief Scientist, Elf Aquitaine, DRTE, Tour Elf, Cedex 45, 92078 Paris, La Defense, 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.

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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.

DAVID 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.

JOSE 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 VALLER: Microtubule motor proteins; synaptic GTPase dynamics.

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

ZUOSHIANG 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, 533 Maple Avenue, Shrewsbury, MA 01545, USA. For more information visit our web site at http://www.wfbr.org/. EOB/AA/VI.

Worcester Foundation
for Biomedical Research

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 post-doctoral experience in peptide chemistry and phage display technology. As part of a team they will work on the development of novel immuno-therapies 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

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 (or equivalent degree) 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: Darla 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.

ZENECALPharmaceuticals
A Business Unit of Zeneca Inc.

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-RA)

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
415/428-3354

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 Ph.D 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.

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 Keefe, 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. McNees, 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.

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 or from Janice Kennedy, 519 Wartik Laboratory, The Pennsylvania State University, University Park, PA 16802. E-mail address: lsrcgradadm@mail.biotec.psu.edu and phone: (814) 865-3155. Penn State is an Affirmative Action/Equal Opportunity Employer.
Women and minorities are encouraged to apply.
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

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 rigorous 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 79968-3587. 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 campus-wide 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
1544 Newton Ct.
Davis, CA 95616

The University of California, Davis, is an affirmative action/equal opportunity employer with a strong institutional commitment to the development of a climate that supports equality of opportunity and respect for differences.

POLICY
Program Director

The American Association for the Advancement ofScience (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 U.S.; 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:

AAAS
Human Resources Department
1200 New York Avenue NW, Suite 100, PD-017
Washington, DC 20005

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POSITIONS OPEN

POSTDOCTORAL FELLOW
University of California, San Francisco (UCSF)

POSTDOCTORAL FELLOWS 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 testing the role of viral-like proteins in molecular or cellular 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. Knight, M.D., Ph.D., University of California, Department of Neurology, Building 1, Room 106, 1001 Potrero Avenue, San Francisco, CA 94110. Affirmative Action/Equal Opportunity Employer.

DOCTOR OF ARTS IN BIOLOGICAL SCIENCES: FELLOWSHIPS

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 STUDENT 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 development 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 15260.

POSTDOCTORAL FELLOWS to study in vivo 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 immediately available 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 Bejsova 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 Bejsova, Department of Biochemistry, Molecular Biology and Cell Biology, Northwestern University, 2158 Sheridan Road, Evanston, IL 60208-3500, FAX: 847-467-1380. SABA UNIVERSITY SCHOOL OF MEDICINE

Full-time and/or M.D. SCHOLARSHIP positions in anatomy, histology, microbiology, pharmacology, pathology, neurosciences, medical psychology. Ph.D. with teaching experience required. M.D. Scholarship faculty must have experience in teaching. Send letter of application, curriculum vitae, and two letters of reference to: Dr. David Fredrick, P.O. Box 386, Gardner, MA 01440-0386. Telephone: 508-630-5122; Email: saba@isc.net. Web Page: www.saba.org.

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. Ellis, Pavilion Marchand, Laval University, Ste-Foy, PQ, G1K 7P4 Canada. FAX: 418-656-7176; Email: lelts@rsvs. ulaval.ca; http://www.fsg.ulaval.ca/bcm/ellis.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 Schulte: 247:1497-1502, 1996; Nature, 370:104-108, 1994) of molecular chaperones. Candidates will study the function of molecular chaperones in the folding and degradation of chaperone proteins in cultured cells. Individuals with experience in molecular biology, protein chemistry, and genetics are encouraged to apply. SABABA UNIVERSITY SCHOOL OF MEDICINE

Full-time and/or M.D. SCHOLARSHIP positions in anatomy, histology, microbiology, pharmacology, pathology, neurosciences, medical psychology. Ph.D. with teaching experience required. M.D. Scholarship faculty must have experience in teaching. Send letter of application, curriculum vitae, and two letters of reference to: Dr. David Fredrick, P.O. Box 386, Gardner, MA 01440-0386. Telephone: 508-630-5122; Email: saba@isc.net. Web Page: www.saba.org.

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