

See you in Seattle

1997 AAAS
Annual Meeting and
Science Innovation
Exposition



February 13-18, 1997
Washington State
Convention Center
Seattle, Washington

Lectures

All Plenary Lectures are from
6:30PM-7:30PM, unless
otherwise noted

All information is as of 12/4/96.
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AMSIE'97...
Engaging Science -
Sustaining Society

PLENARY LECTURES

Opening Session – Science and Technology Challenges for a Global Village Thursday, February 13, 1997

6:30PM-8:30PM

MODERATOR:

John H. Gibbons, Special Assistant to
the President for Sci and Tech

SPEAKERS:

Zhou Guangzhao, China Assoc for Sci
and Tech

Robert M. May, Chief Sci Adviser, U.K.
*Science Policy in a World with Few
Boundaries*

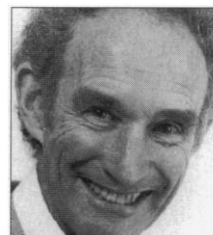
Baldwin Ngubane*, South Africa

Francisco Sagasti, AGENDA, Peru
*Between the West and the Rest: A
Perspective on the Knowledge Divide*

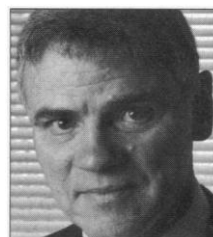
Boris Saltykov, State Cmt of the
Russian Federation for Sci and Tech



John H. Gibbons



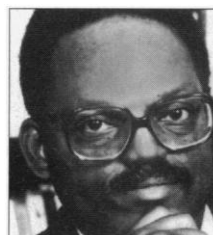
Robert M. May



Leroy E. Hood



Jane Lubchenco



William Julius Wilson



William H. Gates

Keynote Lecture— Friday, February 14, 1997

Leroy E. Hood, Univ of Washington
Genomics and Biological Complexity

President's Lecture – Saturday, February 15, 1997

Jane Lubchenco, Oregon State Univ
*Entering the Century of the
Environment*

Sunday Evening Plenary— February 16, 1997

William Julius Wilson, Harvard Univ
*Jobless Ghettos: The Impact of the
Disappearance of Work in Segregated
Neighborhoods*

Special Morning Plenary— Monday, February 17, 1997

8:00AM-9:00AM

William H. Gates, Microsoft
Corporation

Monday Evening Plenary— Monday, February 17, 1997

TBA

* = Invited, not yet confirmed.

TOPICAL LECTURES

Friday, February 14



Angela B. Ginorio,
Univ of Washington
*It Takes At Least Two:
Ethnic Minorities in
Science*



Neal Lane, Natl Sci
Foundation
 *Science:
Stepchild or
Superstar*



Jonathan Lash, World
Resources Inst; and
David T. Buzzelli,
Dow Chemical Co
*The President's
Council on
Sustainable
Development:
Outcomes and
Implementation*



Claudia I. Mitchell-
Kernan, UCLA
*The NSB Task Force
on Graduate
Education*



Saturday, February 15

George Sarton Award Lecture in the History and Philosophy of Science



Mott T. Greene, Univ
of Puget Sound
*How 'What Goes
Without Saying'
Turns into 'What
Cannot Be Said' in
Science*



Hale Bratt, MIT
*Milliseconds to
Months: X-Ray
Timing of Neutron
Stars and Black
Holes*



John Coffin, Tufts
Univ
 *Drug Resistance
in HIV*



Gene E. Likens, Inst of
Ecosystem Studies
*Long-Term Studies
and Management of
Watershed Ecosystems:
Examples from
Hubbard Brook*

Sunday, February 16

John P. McGovern Award Lecture in the Behavioral Sciences



Endel Tulving, Univ
of Toronto
*Memory and
Consciousness in the
Brain*



Sylvia Earle,
Sea Web
*Use and Misuse of
Marine Resources*



Jim McDermott, U.S.
House of
Representatives
*Medical Privacy in
the Age of New
Technologies*



Elaine Vaughan, Univ
of California-Irvine
*Social Diversity and
the Science of Risk
Assessment*

Monday, February 17

2:00PM-2:45PM
Earl Hunt, Univ of Washington
*Cognition, Intelligence, and the
Training of the Future Workforce:
The Bell Curve Revisited*

2:00PM-2:45PM
Thomas Lovejoy, Smithsonian Inst

2:00PM-2:45PM



Lynn B. Stevenson,
Cascade Oncogenics,
Inc and Univ of
Oregon
 *Building a
Biotechnology
Industry: Biotech
in the Boomies*

2:00PM-2:45PM



Pepper J. Schwartz,
Univ of Washington
*Love, Sex, and
Marriage in the 21st
Century*

Tuesday, February 18



George Campbell, Jr.,
Natl Action Council
for Minorities in
Engineering, Inc
*Human Resources:
Post Cold War, Post
Affirmative Action,
Ph.D. Glut*



Pamela Samuelson,
Univ of California-
Berkeley

Career Caucus: Is There a Science Career For Me?

12:00PM-2:00PM

Org by M.J. Finley Austin, Burroughs
Wellcome Fund and Daryl Chubin,
National Sci Foundation

SPEAKERS

Bo Hammer, American Inst of Physics
Sharon Hays, Stanford Univ
Judy P. Masucci, Univ of Washington
Ruth Ann Mullen, Univ of Washington
Janet Rasey, Univ of Washington Schl
of Med
Franz Rau, Microsoft Corp



Science Innovation Topical Lectures

Friday, February 14

8:30AM-9:15AM



Robert C. Gallo, Inst of
Human Virology
*Basic Science
Leading to Major
Advances in Therapy
Against HIV and AIDS*

1:30PM-2:15PM



Claire M. Fraser, The
Inst for
Genomic Resch
*Microbial Genome
Sequencing: New
Insights on Microbial
Physiology and
Phylogeny*

Saturday, February 15

8:30AM-9:15AM



Polly Matzinger, NIH
*Does the Immune
System Really
Discriminate
Between Self and
Non-Self?*

1:30PM-2:15PM



Thomas H. Dunning,
Jr., Environmental
Molecular Sci Lab and
Pacific Northwest Natl
Lab
*Computational
Chemistry: An Equal
Partner in Chemical
Research*

Sunday, February 16

8:30AM-9:15AM



Ellen Gold, Univ of
California-Davis
*Epidemiology at the
Crossroads of
Technology and
Culture*

1:30PM-2:15PM



Michael Lotze, Univ of
Pittsburgh
*Dendritic Based
Therapy of Cancer*

Monday, February 17

2:00PM-2:45PM



Mary-Claire King,
Univ of Washington

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attendees.



DAILY TIME TABLE

February 13-18, 1997
Washington State Convention Center • Seattle, Washington
* = Invited, not yet confirmed

	THURSDAY, 13th	FRIDAY, 14th	SATURDAY, 15th	SUNDAY, 16th	MONDAY, 17th	TUESDAY, 18th
Morning Midmorning						Field Trip Mt. St. Helens and Mima Mounds Tour 7:00 AM - 6:30 PM
	Meeting Registration 7:30 AM - 7:00 PM Convention Center	Meeting Registration 7:30 AM - 7:00 PM Convention Center	Meeting Registration 7:30 AM - 5:00 PM Convention Center	Meeting Registration 7:30 AM - 5:00 PM Convention Center	Meeting Registration 7:30 AM - 5:00 PM Convention Center	Meeting Registration 7:30 AM - 2:30 PM Convention Center
			Career Workshops 8:30 AM - 5:30 PM Convention Center	Career Workshops 8:30 AM - 5:30 PM Convention Center	Plenary Lecture William H. Gates 8:00 AM - 9:00 AM Convention Center	Career Workshops 8:30 AM - 5:30 PM Convention Center
	Seminar: New Worlds & Old Worlds 8:30 AM - 5:30 PM	Seminar: New Worlds & Old Worlds 8:30 AM - 5:30 PM		Seminar: Basic Research 8:30 AM - 11:30 AM	Exhibition 9:00 AM - 2:00 PM Convention Center	Seminars: School Forum 8:30 AM - 5:30 PM Basic Research 8:30 AM - 11:30 AM
		Concurrent Sessions 8:30 AM - 11:30 AM Convention Center Sheraton	Concurrent Sessions 8:30 AM - 11:30 AM Convention Center Sheraton	Concurrent Sessions 8:30 AM - 11:30 AM Convention Center Sheraton	Career Workshops 9:30 AM - 5:30 PM Convention Center	Concurrent Sessions 8:30 AM - 11:30 AM Convention Center Sheraton
		Science Innovation Sessions 9:30 AM - 12:30 PM Convention Center	Science Innovation Sessions 9:30 AM - 12:30 PM Convention Center	Science Innovation Sessions 9:30 AM - 12:30 PM Convention Center	Seminars: School Forum 9:30 AM - 5:30 PM Basic Research 9:30 AM - 12:30 PM	
		AJAS Oral Sessions 8:30 AM - 12:30 PM Convention Center	Exhibition 10:00 AM - 3:00 PM Convention Center	Exhibition 10:00 AM - 3:00 PM Convention Center	Concurrent Sessions 9:30 AM - 12:30 PM Convention Center Sheraton	bioSCIENCE Career Fair 11:00 AM - 5:00 PM Convention Center
	Field Trips Fred Hutchinson Cancer Ctr 12:30 PM - 4:30 PM Glassblowing 1:30 PM - 4:30 PM Boeing 777 Tour 2:00 PM - 5:00 PM	Student Poster Competition 9:30 AM - 1:30 PM Convention Center	Poster Session Life and Physical Sciences 10:30 AM - 2:30 PM Convention Center	Poster Sessions Social Science and Education 10:30 AM - 2:30 PM	Science Innovation Sessions 9:30 AM - 12:30 PM Convention Center	Career Caucus 12:00 PM - 2:00 PM Convention Center
		Topical Lectures 1:00 PM - 2:00 PM SI Topical Lectures 8:30 AM - 9:15 AM 1:30 PM - 2:15 PM See program for details	Topical Lectures 1:00 PM - 2:00 PM SI Topical Lectures 8:30 AM - 9:15 AM 1:30 PM - 2:15 PM See program for details	Topical Lectures 1:00 PM - 2:00 PM SI Topical Lectures 8:30 AM - 9:15 AM 1:30 PM - 2:15 PM See program for details	Topical Lectures 2:00 PM - 2:45 PM SI Topical Lecture 2:00 PM - 2:45 PM See program for details	Topical Lectures 1:00 PM - 2:00 PM See program for details
				Seminar: Basic Research 2:30 PM - 5:30 PM		Seminar: Basic Research 2:30 PM - 5:30 PM
Afternoon		AJAS Posters 3:00 PM - 5:00 PM Convention Center				
		Concurrent Sessions 2:30 PM - 5:30 PM Convention Center Sheraton	Concurrent Sessions 2:30 PM - 5:30 PM Convention Center Sheraton	Concurrent Sessions 2:30 PM - 5:30 PM Convention Center Sheraton	Concurrent Sessions 3:00 PM - 6:00 PM Convention Center Sheraton	Concurrent Sessions 2:30 PM - 5:30 PM Convention Center
		Science Innovation Sessions 2:30 PM - 5:30 PM Convention Center	Science Innovation Sessions 2:30 PM - 5:30 PM Convention Center	Science Innovation Sessions 2:30 PM - 5:30 PM Convention Center	Science Innovation Sessions 3:00 PM - 6:00 PM Convention Center	
		Exhibition Grand Opening/Reception 4:00 PM - 6:30 PM Convention Center				
	Opening Session: S & T Challenges for a Global Village 6:30 PM - 8:30 PM Convention Center	Keynote Address Leroy E. Hood 6:30 PM - 7:30 PM Convention Center	President's Lecture Jane Lubchenco 6:30 PM - 7:30 PM Sheraton	Plenary Lecture William Julius Wilson 6:30 PM - 7:30 PM Sheraton	Plenary Lecture TBA 6:30 PM - 7:30 PM Convention Center	
Evening			President's Reception 7:30 PM - 8:30 PM Sheraton			

**Special
Event-Public
Science Day
Wednesday,
Feb. 12th**

Friday










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AMSIE'97...
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DAY-AT-A-GLANCE

AM = 8:30AM-11:30AM
PM = 2:30PM-5:30PM

	Biological and Genetic Diversity	PM Sexual Differences in Mating Strategies: The Interface of Culture, Law, and Biology PM Valuing Biodiversity
	Communicating Science	PM Acoustics Demonstrations for the Classroom: The Science of Sounds
	Computers, Information Science, and Technology	AM • Mobile Computing PM • The PetaFLOP Initiative
	Education and Education Reform	AM Third International Mathematics/ Science Study Results: Curriculum, Instruction, and Achievement PM Ethics, Employment, and Graduate Education in Science and Engineering PM Science Education and Dentistry: Improving the Connection
	Environment and Environmental Management	AM Is Sustainable Tropical Forestry Possible or Desirable? PM • Changing Spatial Analysis Technologies in Agriculture and Ecosystem Management: Are We Ready?
	Genetic Research and Human Health	AM • Complex Traits: Where are the Genes? PM • The Genetic Basis of Drug Dosing
	Global Change: Environment, Impacts, and Action	AM/ PM Global Change in Local Places
	Industry, Technology, and Engineering	PM Tracing Science and Engineering Interactions in the Evolution of Major Innovations
	Natural Resources Issues in the Pacific Northwest	AM Complex Forests, Simple Visions: Science, Policy, and the Old-Growth Forests PM Columbia River Salmon Restoration: Can Science Help Resolve the Conflicts?

	Public Health and Medicine	AM Behavioral and Social Science Contributions to Other Health Sciences PM Alternative Medicine in a Scientific World PM • Recent Advances in the Biology of Aging
	Public Policy, Science, and Engineering	AM Public Attitudes toward Science and Technology in Canada, Europe, Japan, and the United States PM Global Processes, Regional Consequences: NAFTA, Economic Restructuring, and Social Change in Comparative Perspective
	Risk, Science, and Nuclear Management	PM Risk-Influenced Decisionmaking at DOE Sites: Time for Holistic Thinking?
	Science and Law	AM • Patenting Human Genes: An Incentive or Impediment to Research
	Science and Society	AM Culture and Nature: Married or Divorced? The Impact of Gender Upon Sustainability PM Legal and Illegal Work: Macro- and Micro-Economic Influences on Violence PM Symmetry and Asymmetry in Science: Discovery, Theory Construction, and Aesthetics (2:30PM - 6:00PM)
	The Universe: Mathematics and Astronomy	AM Art, Bubbles, Crystals, Domes: Geometry in the World Around You PM • Novel Science with Radioactive Beams
	Science Innovation	AM Sonoluminescence and Sonochemistry AM Technologies for a Comprehensive Biology in the Post Genome Era PM Combinatorial Chemistry PM From the Human Genome to the Environment: A New Frontier
	Seminars	AM/ PM New Worlds and Old Worlds 8:30AM - 5:30PM (Begins Thursday, February 13th, 8:30AM - 5:30PM)

Saturday










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DAY-AT-A-GLANCE

AM = 8:30AM-11:30AM
PM = 2:30PM-5:30PM

	Biological and Genetic Diversity	PM •Communication: Neurobiological and Environmental Approaches PM The Global Biodiversity Assessment: The Importance of Biodiversity and Ecosystem Functioning
	The Brain, Human Behavior, and Language	AM Science of Memory in a Complex World
	Communicating Science	AM Science Is Fun! AM Stormy Weather: Weather, Science, and Journalism
	Computers, Information Science, and Technology	AM •Electronic Collaboratories: Laboratories without Walls
	Education and Education Reform	AM Perspectives on Mathematics Education from Around the World AM High School Science Reform: History, Standards, and Ongoing Activities PM Common Threads in Undergraduate Science, Mathematics, and Engineering Education Reform
	Environment and Environmental Management	PM Integrating Watershed Ecosystem Studies for Improved Natural Resources Management PM •Research Frontiers and Challenges in Environmental Sciences
	Genetic Research and Human Health	AM •HIV, Genomic Research, Statistics, and the Development of AIDS Vaccines PM •Host Genes and Resistance to HIV Infection and AIDS
	Global Change: Environment, Impacts, and Action	PM Active Tectonics: Integrated Science Comes Home to Main Street
	Natural Resources Issues in the Pacific Northwest	AM The Pacific Northwest: Coastal Ocean Ecosystems Under Stress PM Watershed-Based Restoration of Pacific Northwest Wetlands

	People, Science, and History	AM Early Maritime Adaptations in North America, 10,000 to 4,500 yr BP PM Late Prehistoric Maritime Adaptations in North America
	Public Health and Medicine	AM Gender Based Biology: What Does it Mean? AM Managing Risks, Managing Care PM Biocultural Perspectives on Women's Health in Developing Countries PM •Radioisotopes in Medicine: New Promise for the Treatment of Cancer
	Public Policy, Science, and Engineering	AM Mobilizing the Science Community for Political Action AM The Complexity Challenge: Technology Policy for the 21st Century PM Environmental Security: Integrated Regional Stability Implications PM Research Funding, Prioritization, and Accountability in Agriculture
	Risk, Science, and Nuclear Management	AM Nuclear Waste, Secrecy, and the Mass Media PM Science-Based Risk Management in Regulatory Agencies: Assessing Risk Commission Recommendations
	Science and Law	PM Damned If You Do, Damned If You Don't: What the Scientific Community Can Do About Whistleblowing
	Science and Society	AM Research on Violence in the Family: Challenges and Opportunities PM When Nontraditional Family Structures Succeed--and Why
	The Universe: Mathematics and Astronomy	AM Taking the Pulse of the Universe: The First Year of Results from the Rossi X-Ray Timing Explorer PM Implications of the Possibility of Life on Mars
	Science Innovation	AM Engineering the Future with Microsystem Technologies AM Human and Medical Genetics PM Genomics

Sunday

















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AMSIE'97...
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DAY-AT-A-GLANCE

AM = 8:30AM-11:30AM
PM = 2:30PM-5:30PM

 Biological and Genetic Diversity	AM Global Biodiversity: Is it in the Mud and the Dirt? AM Africa's Marine Resources as Potential Economic Assets PM The Nature and Value of Ecosystem Services	 Public Health and Medicine	AM Epidemiology of Low-Level Environmental Exposures: Present Boundaries and Future Possibilities PM Assessing Health Care Needs of the Gay, Lesbian, Bisexual, and Transgendered Communities
 The Brain, Human Behavior, and Language	AM Human Behavioral Ecology: What Have We Learned? PM •How Genes Influence Behavior	 Public Policy, Science, and Engineering	AM Emerging Science and Policy Issues and the U.S. Congress PM Science and Policy: Evaluating an Advocacy Coalition Framework
 Communicating Science	AM Accuracy in Science News PM Reporting		
 Computers, Information Science, and Technology	AM The Telecommunications Revolution in Russia: Its Impact on Science and Technology Cooperation Between Russia and the United States		
 Education and Education Reform	AM Doing Science K-12: Models for Authentic Research through Scientist/Educator Partnerships (8:30AM - 12:00PM ; 2:30PM - 6:00PM) PM Learning to Read: Educational Practice in Light of Linguistic and Psycholinguistic Evidence		
 Environment and Environmental Management	AM Pathways of Exposure to Contaminants in Surface Soils PM Priorities for Environment and Natural Resources Research	 Science and Society	AM Sleepless in Seattle? Science and the American Coffee Revolution PM Virtual Societies: Computers and Social Theory
 Genetic Research and Human Health	PM Genetic Influences on Food Preferences and Food Rejection	 The State of the Oceans	AM Marine Biological Invasions: Patterns, Processes, and Prospects AM Submarine Volcanoes, Chemosynthetic Life, and Mineral Deposit Formation
 Industry, Technology, and Engineering	PM Perspectives on Sustainability Indicators	 The Universe: Mathematics and Astronomy	AM Excitement On and In the Sun PM Could Europa Harbor Submarine Hydrothermal Life? PM •The Electron: The First Elementary Particle
 People, Science, and History	AM Cultural Connections on the Ancient Pacific Perimeter PM Was the Northwest Coast "Agricultural"? Aboriginal Plant Use Reconsidered	 Science Innovation	AM Genetics of Normal and Abnormal Vertebrate Development PM New Insights in Chromosome Biology through Microscopy
		 Seminars	AM From Basic Research to the PM Global Marketplace

Monday



















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DAY-AT-A-GLANCE

AM = 9:30AM-12:30PM
PM = 3:00PM-6:00PM

	Biological and Genetic Diversity	PM Human Population, Climate Change, and Biodiversity: Science and Policy Issues
	The Brain, Human Behavior, and Language	PM Expressing Meaning through Word Structure and through Syntax
	Communicating Science	PM Science Teaching Using Principles Derived from Cognitive Psychology
	Computers, Information Science, and Technology	AM •Prospecting for Knowledge: Mining the Published Archives of Science PM •Scholarly Publishing on the Internet: What Does the Future Hold?
	Education and Education Reform	AM Virtual Education Platforms: Examples from the Front Lines PM New Directions in Testing: Standards, Performance Assessment, and Learning
	Genetic Research and Human Health	AM •The Human Genome Project: PM What's the Public Got To Do With It?
	Global Change: Environment, Impacts, and Action	AM •Continuing Lessons from the IGY PM Forty Years Later
	Industry, Technology, and Engineering	AM The Virtual Knowledge Based Organization in the Pacific Northwest PM High Speed Civil Transport: Why and When? PM The Future of Industry on the Internet
	Natural Resources Issues in the Pacific Northwest	PM Geochemical Backgrounds and Metal Mobilities: Alaska and the Pacific Northwest
	People, Science, and History	AM The Pacific Northwest as a Linguistic and Cultural Area
	Public Health and Medicine	AM •Interdisciplinary Perspectives on Emerging Infectious Diseases
	Public Policy, Science, and Engineering	AM Impact Assessment: Influencing Policy and Current Issues AM •'The Underclass': Joblessness and the New Urban Poverty PM
	Risk, Science, and Nuclear Management	AM Meeting the Challenges of Tank Waste Cleanup PM The Challenge of Infusing New Technology Into Hanford Waste Treatment
	Science and Society	AM Basic Research: So What Have You Done for Us Lately?
	The State of the Oceans	AM Managing Marine Fisheries in an Ecosystem Context PM Science and Marine Protected Areas
	The Universe: Mathematics and Astronomy	AM New Milestones in Cosmic Distance Measurements (The Tom Lutz Memorial Symposium) AM The Nature of Time PM Inside Out: Inverse Boundary Problems
	Science Innovation	AM Quantum Computation AM /The Cell Cycle PM
	Seminars	AM From Basic Research to the Global Marketplace AM /AAAS Forum for School PM Science:Implementing Inquiry-Based Science Teaching 9:30AM - 6:30PM

Tuesday















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AMSIE'97...
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DAY-AT-A-GLANCE

AM = 8:30AM-11:30AM
PM = 2:30PM-5:30PM

 Biological and Genetic Diversity AM Biodiversity and Human Responsibility	 Public Policy, Science, and Engineering AM Science and Democracy: Beyond the "Science Wars" PM Leaky Pipeline or a Room with Many Doors? Career Metaphors and Options
 Computers, Information Science, and Technology AM Copyright and the Net: Is Legislation the Answer? PM Policing the Internet: Cybersensorship and its Potential Impact	 Science and Law AM Liability and Ethical Issues for Consulting Scientists and Engineers
 Education and Education Reform AM How Do We Find Out What Science Students Know?	 Science and Society AM Ethical Aspects of Societal Decision Making: Fetal Risks and Rights? PM Ecological Integrity: Moving from Principle to Practice
 Genetic Research and Human Health AM The Challenges to Civil Liberties Presented by Human Genetics Research	 The State of the Oceans AM Changing States of Large Marine PM Ecosystems: A Global Perspective
 Global Change: Environment, Impacts, and Action AM The Role of Improved Climate and Weather Forecasting in Western Water Management	 Seminars AM From Basic Research to the Global Marketplace AM/ AAAS Forum for School PM Science: Implementing Inquiry-Based Science Teaching 8:30AM - 5:00PM
 Industry, Technology, and Engineering AM • Fundamentals of Industrial Catalysis PM Advanced Materials and the U.S. Economy for the Twenty-First Century	
 Natural Resources Issues in the Pacific Northwest AM Sustainable Development in the Arctic	
 People, Science, and History AM/ The Last of the Nomadic Herders: PM Biocultural Dimensions	
 Public Health and Medicine AM Creating Healthful Food Systems: Linking Agriculture to Human Needs	

Exhibitors

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9

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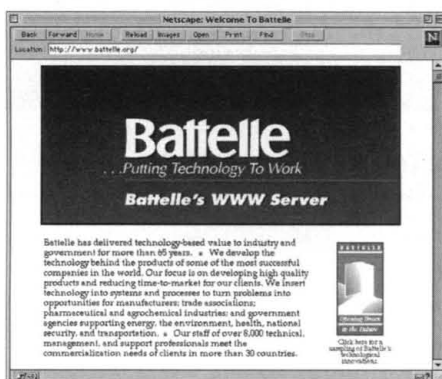
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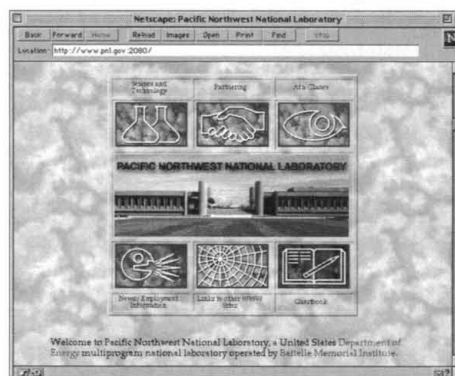
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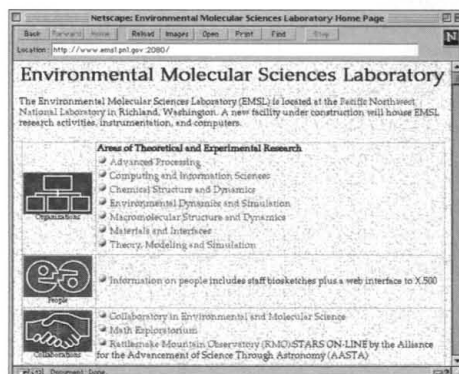
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**BOOTH
#107**

SEE PAGE 19 FOR

11

REGISTRATION FORM

Career Development Workshops

All information is as of 12/4/96. Changes, additions or deletions received after that date will be included in the next printing of this program.

AMSIE'97...
Engaging Science -
Sustaining Society



Career Development Workshops

Career Planning for the 21st Century

SATURDAY 8:30AM-11:30AM

Org by Jan Reha, Career Discovery

Learn new methods for finding and keeping a job in the 21st century. Discover new ways for developing contacts and mentors, identifying job opportunities, and marketing yourself to potential employers.

Making Your Education Work For You

SATURDAY 2:30PM-5:30PM

Org by Jan Reha, Career Discovery

Aimed specifically at undergraduate students, this session will give students practical advice on shaping a successful science future. Students will see how the decisions and choices they are making now — course selection, internships, research assignments — will affect their future.

New Directions: Maps to Diverse Science Careers

SUNDAY 2:30PM-5:30PM

TUESDAY 2:30PM-5:30PM

Org by Finley Austin, Burroughs Wellcome Fund; Carol Sibley, Univ of Washington

Find out about different careers that are available to you and how some scientists have gone from benchwork to successful careers outside the academic lab. Learn how to identify your transferable skills. Scientists who have successfully moved into different fields will give practical advice and share their strategies for making the science career switch.

Talking Publicly about Science in Our Own Backyard

MONDAY 9:30AM-12:30PM

Org by Anna Davis, Univ of Washington; and Eliene Augenbraun, USAID

Speakers include Bill Dietrich, *The Seattle Times* and Ira Flatow, NPR

Gain helpful insights for speaking publicly about your work. Learn how

to publicly address the media, a group of your peers and mentors, or potential employers. Get advice from a panel of scientists and journalists on bridging the gap between scientists and the general public.

Job Opportunities Resources

MONDAY 9:30AM-12:30PM; 3:00PM-6:00PM

Org by Arden Forrey, Univ of Washington

Find out the latest information about the current state of the science and technology job market and discover what the government is doing about it. Learn the current tools and techniques you should use when looking for a job in today's marketplace and how to identify useful resources that can help you find employment.

Alternative Career Paths: AAAS Fellowship Programs in Science Policy and Mass Media

TUESDAY 8:30AM-11:30AM

Org by Claudia Sturges and Amie King, AAAS

Former Fellows will describe how these programs can impact career paths. In the first half of this session, learn

about the five AAAS science policy fellowship programs, where scientists and engineers can contribute to and learn about the interface of science and public policy in the Congress or executive branch agencies. In the second half, discover how students in science and engineering can spend a summer working in science journalism at media sites across the U.S., through the Mass Media Fellowship Program.

The Requirements for a Successful Career in Science and Technology

TUESDAY 2:30PM-5:30PM

Org by Richard C. Adams, Pacific Northwest Natl Lab

Gain insight into what the requirements of a successful scientific career will be in the 21st century. Discover the characteristics of the 21st century workplace and what employers will expect from you in the future. Learn about the American work environment of the future and how it compares to other industrialized nations.

The AAAS bioSCIENCE Career Fair

- The AAAS bioSCIENCE Career Fair is FREE to all
- Employers will be on-site in Seattle to talk to you about real biotech and biomed job openings
- Hundreds of postings: Various positions and levels of experience to review at your leisure
- Bring multiple copies of your resume and visit as many employers as you wish
- On-site Career Development Workshops conducted by top science recruiters and human resource professionals (Workshops are \$10 AAAS Member/\$25 Non-Member)
- Sponsored by AAAS and *Science* magazine

Washington State Convention Center
February 18, 1997—11:00 AM - 5:00PM

Optional Tour Program

For tour descriptions, visit
the AAAS Annual Meeting
Web site: <http://www.aaas.org/meetings/AMSIE97/fieldtrp.htm>

AMSIE'97...
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INFORMATION & REGISTRATION

TOUR TICKETS: Tickets will not be mailed. You will need to pick up your advanced purchased tickets at the Seattle V.I.P. Services Tour Registration Desk, adjacent to the AAAS registration area, at the Washington State Convention and Trade Center upon your arrival in Seattle. The tour desk will be open during peak conference registration hours.

TOUR DEPARTURES: Tours will depart promptly from Convention Place at the Washington State Convention and Trade Center. Please arrive 10 minutes prior to departure time.

CANCELLATIONS: Prepaid tour registrations are refundable only if cancelled by January 30, 1997. Tour refunds will be made less a \$2.00 per ticket handling charge. There will be no refunds or exchanges after January 30, 1997. Note that should tour minimums not be met, all monies will be refunded.

TOUR REGISTRATION DEADLINE:

Tour Registration Deadlines are as follows:

January 13, 1997 for Independent Victoria Day Trip

January 30, 1997 for all other tours

After the above dates, tour registration will be taken on a space available basis only. Any tickets available for sale on-site will include an additional \$2.00 charge.

Please return the registration form along with a check or money order in U.S. funds and drawn on a U.S. bank for the amount due to Seattle V.I.P. Services.



AMSIE'97 REGISTRATION FOR OPTIONAL TOUR PROGRAM

PARTICIPANT NAME: _____

ADDRESS: _____

CITY: _____

STATE: _____ ZIP: _____

PHONE: _____ FAX: _____

SEATTLE HOTEL: _____ ARRIVAL DATE: _____

Full payment by check or money order in U.S. funds must accompany this form. If paying by credit card, you may fax your registration form to (206) 623-2540. We accept Visa or Mastercard.

FORM OF PAYMENT: ☐ Check/Money Order (payable to Seattle V.I.P. Services)
☐ Visa ☐ Mastercard

Credit Card Number: _____ Expiration Date: _____

Signature: _____

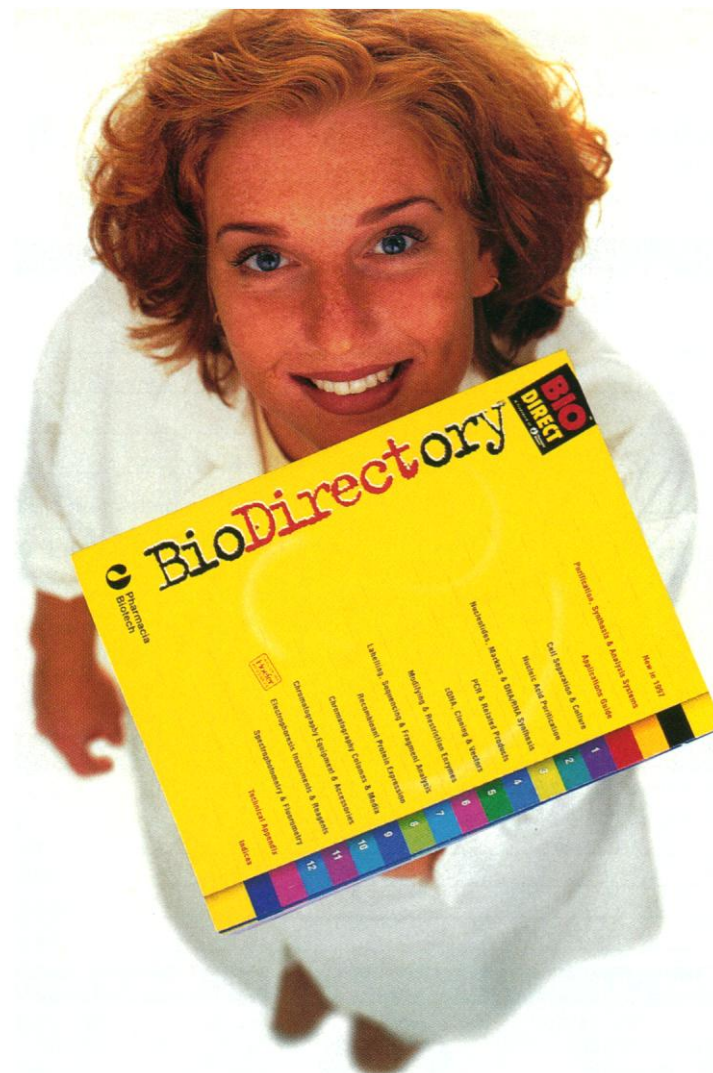
No confirmations will be sent.

A. TECHNICAL TOURS	PRICE	X	#TICKETS	=	TOTAL DUE
THURSDAY, FEBRUARY 13, 1997					
Fred Hutchinson Cancer Research Center, 12:30pm-4:30pm	\$34.00	X	_____	=	_____
The Art & Science of Glassblowing, 1:30pm-4:30pm	\$35.00	X	_____	=	_____
Boeing 777 Tour, 2:00pm-5:00pm	\$28.00	X	_____	=	_____
TUESDAY, FEBRUARY 18, 1997					
Mt. St. Helens & Mima Mounds Tour, 7:00am-6:30pm	\$75.00	X	_____	=	_____
TECHNICAL TOURS SUBTOTAL					= _____

B. ACCOMPANYING PERSONS TOURS	PRICE	X	#TICKETS	=	TOTAL DUE
THURSDAY, FEBRUARY 13, 1997					
Independent Victoria, 8:30am-8:00pm	\$85.00	X	_____	=	_____
FRIDAY, FEBRUARY 14, 1997					
City Highlights & Pike Place Market Tour, 9:00am-12:00pm	\$20.00	X	_____	=	_____
Snoqualmie Falls, Boehm's Tour, 9:45am-2:45pm	\$25.00	X	_____	=	_____
Kiana Lodge Salmon Bake, 4:30pm-9:15pm	\$67.00	X	_____	=	_____
SATURDAY, FEBRUARY 15, 1997					
Seattle Underground Tour with Lunch, 9:45am-1:45pm	\$38.00	X	_____	=	_____
SUNDAY, FEBRUARY 16, 1997					
Spirit of Washington Brunch Train, 10:00am-3:30pm	\$72.00	X	_____	=	_____
	\$59.00	X	_____	=	_____
			Dome Car		
			Parlor Car		
MONDAY, FEBRUARY 17, 1997					
Chateau Ste. Michelle Winery & Molbak's Nursery 1:00pm - 4:30pm	\$23.00	X	_____	=	_____
TUESDAY, FEBRUARY 18, 1997					
Independent Victoria, 8:30am-8:00pm	\$85.00	X	_____	=	_____
ACCOMPANYING PERSONS TOURS SUBTOTAL					= _____

TOTAL AMOUNT ENCLOSED (ADD A & B) = _____

RETURN PAYMENT TO: Seattle V.I.P. Services, c/o AAAS, 500 Union,
Suite 640, Seattle, WA 98101, Fax: (206) 623-2540



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lamps, which are available in 254-nm, 312-nm, and 365-nm wavelength combinations. The CC-81 is equipped with a high-intensity longwave/shortwave combination ultraviolet lamp, making it a complete system. Both units feature built-in white light sources that provide visible illumination for preparation of samples. **Spectronics.** For information call 800-274-8888 or circle 140 on the reader service card.

Fraction Collector

The 206 Fraction Collector collects eluent either manually or automatically at flow rates up to 800 ml/min. The collector is well suited for unattended, large-scale preparative applications involving large volume

fractions (several liters). It features six collection modes, including manual, time, peak plus time, time program, and peak plus time program. These many modes will meet virtually any fraction collection requirement. Several features help fulfill safety requirements for large-scale preparative applications. The remote keypad allows the unit to be placed under a fume hood or in a cold room. A plastic cover protects the collected fractions from environmental contamination when fractions are collected on a rack. **Gilson.** For information call 800-445-7661 or circle 141 on the reader service card.

Reaction Chemistry Software

MetaSynthesis v1.0 is a package of chemistry software for the Macintosh (an IBM-compatible version will be released shortly). It includes a relational database built upon three chemical categories: species, reactions, and reaction mechanisms. It details the chemical and physical properties of most organic and inorganic species. Reaction mechanisms, solubilities, molar quantifications, and end products are available graphically as well as numerically. Navigation is by a straightforward point-and-click graphical interface. The program includes 14 calculators and gadgets, including dilution calculators, a Dynamic Lab Notebook, an aromatic substitution pattern prediction facility, and a module on modern Lewis theory. **Venus Internet.** For information call +44 171 240 5858 or circle 142 on the reader service card.

Buffer Temperature Control

The ThermoFlow ETC System precisely controls the buffer temperature throughout an electrophoresis run between 4°C and 60°C. The unit is designed so that gels are completely submerged in the temperature-controlled circulating buffer, providing a constant, uniform temperature on all sides of the gel cassette. The buffer temperature is precisely controlled by being circulated

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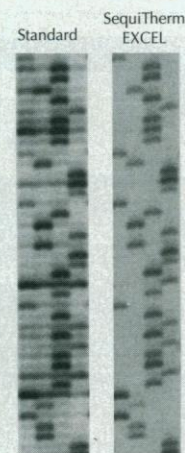
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Three new Biotrak assays enable the measurement of subphysiological concentrations of soluble cell adhesion molecules (CAMs). The assays for sICAM-1, sVCAM-1, and sELAM-1 require only three steps to generate results within 3 hours. CAMs have been implicated in a number of pathological conditions, including inflammation, graft rejection, bacterial and viral infection, leukocyte function, ischemia, and the onset of metastasis in tumors, so the new enzyme-linked immunosorbent assays are expected to be useful to researchers in these areas. **Amersham International.** For information call 800-323-9750 or circle 144 on the reader service card.

Antibodies

A set of 16 matched antibody pairs can be used for enzyme-linked immunosorbent assay development to measure mouse and hu-

man cytokine levels. Each pair consists of a purified coating antibody and a biotin-labeled detecting antibody. The antibody pairs are for human IL-2, IL-3, IL-12, IL-13, and GM-CSF, and mouse IL-1 β , IL-2, IL-3, IL-4, IL-5, IL-6, IL-10, IL-12, GM-CSF, IFN- γ , and TNF α . Two new monoclonal antibodies to human T cell receptors, TCRV β 7.1 and TCRV β 17 can be used in flow cytometry, immunoprecipitation, and T cell stimulation. Anti-TCRV 17 can also be used in protein immunoblotting. They are available both purified and FITC-labeled. **Endogen.** For information call 800-487-4885 or circle 145 on the reader service card.

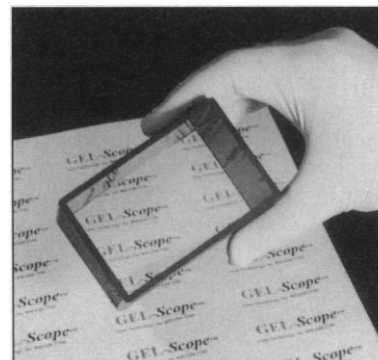
DNA Fragmentation Detection Kits

DNA fragmentation detection kits allow the recognition of apoptotic nuclei in paraffin-embedded tissue sections or in cell preparations fixed on slides via DNA fragment end-labeling. These kits rely on the specific binding of the large (Klenow) fragment of DNA polymerase I to an exposed DNA template or terminal deoxynucleotidyl transferase to free 3'-OH ends of DNA followed by incorporation of labeled deoxynucleotides. Application of avidin-peroxidase followed by conventional histochemistry allows the identifi-

cation of apoptotic nuclei by light microscopy. **Calbiochem.** For information call 617-577-9333 or circle 146 on the reader service card.

Gel Viewer

The GEL-Scope is for the direct examination of gels submerged in high concentrations of Coomassie blue and other dark stains without removing them from the solutions. The



user simply holds the GEL-Scope over the gel to see the bands developing against a clear background. **Geno Technology.** For information call 314-534-0075 or circle 147 on the reader service card.

Literature

Direct Reading Echelle ICP is a brochure on an inductively coupled plasma spectrometer that features a patented optical design that makes use of an Echelle grating, a compact focal plane, and a precise wavelength selection system. **Leeman Labs.** For information call 508-454-4442 or circle 148 on the reader service card.

Growing Cells Is in Our Genes is a four-page product guide on a family of water-jacketed CO₂ incubators designed to maintain ideal growth conditions for cell and tissue culture applications. **Precision Scientific.** For information call 312-227-2660 or circle 149 on the reader service card.

Pall BioSupport Media for Venting Applications describes a range of hydrophobic/oleophobic materials that repel low-surface-tension liquids while venting gases. They feature high titer reduction, durability, and gamma compatibility. They are for use in health care vents, intravenous spikes, transducer protectors, bottle vents, sample collection vessels, and other critical venting applications. **Pall Corp.** For information call 800-289-PALL or circle 150 on the reader service card.

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P5

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	Blue and White Mug†	\$12.50 \$10.00	\$10.00 \$8.00		
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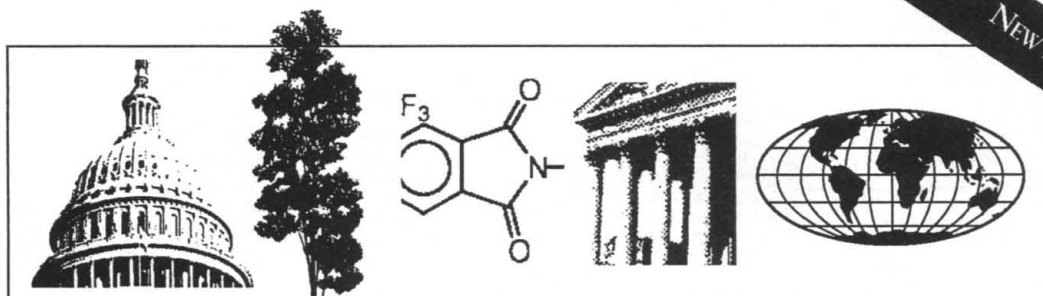
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NEW PROGRAM

1997-98 DEFENSE POLICY FELLOWSHIPS FOR SCIENTISTS AND ENGINEERS

The American Association for the Advancement of Science invites applications for one-year fellowships at the Department of Defense, working in one of several offices of the Under Secretary of Defense for Acquisition and Technology. The fellowships are designed to provide a unique defense policy learning experience, to bring technical backgrounds and external perspective to the programs of Acquisition and Technology, and to introduce the outstanding scientists and engineers to government service. Fellows will work on issues related to defense policy, technology applications, defense systems analysis, and program oversight and management. Assignments may involve interagency, congressional, or international activity. The stipend is \$45,000.

Applicants must have a Ph.D. or equivalent doctoral level degree at the time of application. Persons with a master's degree in engineering and at least three years of post-degree experience may also apply. All applicants must be U.S. citizens. Federal employees are not eligible. Applications are invited from persons in any area of the physical, biological, or social sciences, and any field of engineering. Interest and/or experience in industrial applied science and technology or business administration is desirable but not required. Applications must be postmarked by February 28, 1997.

Fellowship awards are contingent on grant funding. For further information and application instructions, call 202/326-6600, fax 202/289-4950, or e-mail science_policy@aaas.org.



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FAX: (202) 289-6742
Email: science_displayads@aaas.org

Janis Crowley
Recruitment Advertising Manager
Telephone: (212) 496-7704
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Debbie Cummings
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For **MEETINGS AND ANNOUNCEMENTS** display advertisements, see page 255.

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Estimates: SCIENCE will provide a cost estimate for line ads. This is an approximate cost only. Allow for variation between estimated lines and actual typeset lines and resulting final cost. Purchase orders must allow for some degree of flexibility and/or adjustment.

For line advertising deadlines, call Eric Banks. Telephone: (202) 326-6555; FAX: (202) 289-6742. Email: science_classifieds@aaas.org

Credit Cards: SCIENCE accepts American Express, MasterCard and VISA. Discount does not apply to credit cards.

Cancellations: Deadline for cancellation is Tuesday, 10 days prior to issue date.

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POSITIONS OPEN

The Experimental Immunology Branch (EIB), Division of Basic Sciences, of the National Cancer Institute, National Institutes of Health, Bethesda, Maryland, invites applications for a **TENURE-TRACK** position in immunology. The applicant should have a Ph.D., M.D., or equivalent degree, a strong record of scientific accomplishments, and the potential to establish an independent research program in molecular or cellular immunology. The position provides salary and full funding to establish an independent research program, including laboratory space, equipment, budget, technical personnel, and support for fellows. U.S. citizenship or eligible resident alien status is required. Salary will be commensurate with education and experience. The EIB, one of the premier immunology groups, consists of 11 Principal Investigators: **Alfred Singer, Ronald Gress, Pierre Henkart, Richard Hodes, Michael Kuehn, Paul Roche, David Segal, Susan Sharrow, Stephen Shaw, Gene Shearer, Dinah Singer.** Active research covers a wide range of areas of immunology including: thymic education and T cell differentiation, mechanisms of cell death and cell adhesion, HIV-induced immunodeficiency, transplantation biology, cell biology, antigen presentation, receptor assembly and transport, signal transduction, B lymphocyte immunobiology, and regulation of gene expression. Scientific interactions, which are encouraged and occur extensively among EIB members, are a particularly attractive element in this position. A more detailed description of the EIB can be found at its website: www.nci.nih.gov/intra/EIB/EIB-PAGE.htm. Applicants should send a curriculum vitae, outline of a proposed research program (no more than two pages), and three letters of recommendation to: **Ms. Karen Valpey, Experimental Immunology Branch, Building 10, Room 4B-17, NIH, Bethesda, MD 20892.** Applications must be received by March 1, 1997. *The National Cancer Institute is an Equal Opportunity Employer. Selection for this position will be based solely on merit.*

FACULTY POSITIONS IN DRUG DELIVERY UNIVERSITY OF HOUSTON

The Department of Pharmacological and Pharmaceutical Science at the University of Houston has tenure-track positions in pharmacetics available at the rank of **FULL/ASSOCIATE/ASSISTANT PROFESSOR** to build a research emphasis in macromolecular drug delivery. Applicants must have an earned doctorate degree and postdoctoral research experience. We are especially interested in individuals with expertise in the delivery of nucleotides and peptides. The successful senior candidate will be a recognized leader in drug delivery and may be eligible for an endowed professorship. Junior candidates should have excellent training in drug delivery and strong research potential. Salaries and rank will be commensurate with experience and qualifications. Faculty members are expected to develop a vigorous, independent, extramurally funded research program and have a strong commitment to professional and graduate education. Candidates should submit a letter of application, a curriculum vitae, and a summary of research objectives to: **Douglas C. Eikenburg, Ph.D., Chair, Department of Pharmacological and Pharmaceutical Sciences, College of Pharmacy, University of Houston, Houston, TX 77204-5515.** Review of applications will begin February 1, 1997 and continue until the positions are filled. *The University of Houston is an Equal Opportunity/Affirmative Action Employer; minorities, women, veterans and persons with disabilities are encouraged to apply.*

DIRECTOR Wisconsin Regional Primate Research Center

The University of Wisconsin-Madison announces a search for **DIRECTOR** of the Wisconsin Regional Primate Research Center. The Director will be expected to lead development of strong research programs involving university faculty and staff and outstanding visiting researchers in important biomedical areas in which the non-human primate offers unique opportunities for research relevant to the health of humans and other primates. The Director will also hold a tenured professorship in an appropriate academic department and will have the opportunity to continue his or her research and graduate student/postdoctoral training. Applicants should supply a full curriculum vitae, a statement of research interests, and names of three references no later than January 31, 1997. Address correspondence to: **Primate Director Search Committee, 333 Bascom Hall, University of Wisconsin-Madison, Madison, WI 53706.** Unless confidentiality is requested in writing, information regarding the applicants must be released upon request. Finalists cannot be guaranteed confidentiality. *The University of Wisconsin-Madison is an Equal Opportunity Employer.*

POSITIONS OPEN

UCI

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Siu Wa Tang, M.D.
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Southwest Texas State University is a comprehensive university of nearly 21000 students with undergraduate and masters level instruction. The University is located in San Marcos, a city of over 36000 residents in the beautiful Texas Hill Country, 27 miles from Austin and 45 miles from San Antonio.

The departments in the school are biology, chemistry, computer science, mathematics, and physics and have 132 faculty, 2139 undergraduate and 338 graduate majors.

Applicants must have a doctoral degree and an outstanding teaching and scholarly record appropriate for appointment at the rank of Professor in one of the departments in the school, strong interpersonal and communication skills, and appropriate prior administrative experience.

Review of applications will begin on February 1, 1997. The search will continue until the position is filled, with an anticipated appointment date of September 1, 1997. Nominations and applications should be forwarded to: **Chair, Dean of Science Search Committee, Southwest Texas State University, 601 University Drive, San Marcos, TX 78666.** Applicants should include a letter of intent, curriculum vitae, and a list of three references.

Southwest Texas State University is an Equal Employment Opportunity/Affirmative Action Employer. SWT is committed to increasing the number of women and minorities in faculty and administrative positions.

DEVELOPMENTAL NEUROBIOLOGISTS

The Department of Anatomical Sciences and Neurobiology is seeking to fill state-funded positions at the level of **ASSISTANT PROFESSOR** which are tenurable. The preferred candidates will have independent research programs in developmental neurobiology with a molecular approach, a track record of funding, and research which complements existing interests and assists in the development of molecular expertise for our NSF-sponsored program in developmental and molecular neurobiology. Substantial start-up packages are available. Candidates will be expected to team teach in either histology, gross anatomy, or neurosciences and in future years teach a graduate course in neurobiology. The department has 25 faculty, the majority of whom have a research interest in the neurosciences. Deadline: open. If possible, please respond before February 15, 1997. Send curriculum vitae, statement of research and career goals, list of current funding, and four letters of reference to:

Search Committee
c/o Dr. Fred J. Roisen, Chairman
Department of Anatomical Sciences
and Neurobiology
University of Louisville
School of Medicine, Louisville, KY 40292

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

Stevenage UK

Director of Disease Sciences



Our Medicines Research Centre at Stevenage represents the largest single investment in research facilities anywhere in the world. This £700 million centre was opened in 1995 and is home to over 2000 people working to discover new medicines. State of the art facilities provide scientists with excellent working conditions exploiting the latest generation of technologies.



We now have an exciting opportunity for a Director of Disease Sciences to be based in Stevenage and take responsibility for research relating to the understanding of the molecular mechanisms involved in respiratory, vascular, CNS and viral diseases. You will report directly to the UK Research Director and will be an active and complementary member of the Research Leadership Team representing Cellular Sciences, Medicinal Sciences and Discovery Technology as well as Disease Sciences.



You will work within a flexible team-based structure with direct responsibility for a team of approximately 200 highly qualified research scientists. A key element of this position is to work within a matrix structure and liaise closely with Clinical Research and the Corporate Genetics Directorate. You will also be



responsible for ensuring that cross functional initiatives are applied to the overall drug discovery process.

This position requires an exceptional scientist with experience in one or more of the following therapeutic areas: Clinical Virology, Neuroscience, Molecular Pathology, Respiratory Diseases, Vascular Diseases, Immunopathology and Genomics. You must have a good first degree (BSc or MD level) with excellent post graduate research experience. In addition, you must have a good understanding of both disease mechanisms and Genetics.

Success in this role will be achieved by your ability to drive and manage science, to integrate with peer groups internationally and play a major part in formulating the strategy of UK Research. A flexible, energetic and informal management style will be essential in order to direct the development of the Disease Sciences Research programme within a corporate culture which encourages personal development and empowerment in its employees.

Our remuneration package will reflect the senior nature and importance of this critical role.

GlaxoWellcome
Disease has no greater enemy



Please mail or fax your details by January 31st 1997, to John Weeks at Grosvenor Stewart, 32 Aybrook Street, London W1M 3JL.
Fax: 0171 224 2350 or e-mail address search@london.msl.co.uk

B I O T E C H N O L O G Y O P P O R T U N I T I E S

Progenics Pharmaceuticals, Inc. is a biopharmaceutical company specializing in the development of therapeutics and vaccines for the management of cancer and HIV infection. The company is situated on an attractive campus in Westchester County, 20 miles north of Manhattan. Our rapid expansion is creating opportunities for scientists and managers at all levels. We are particularly interested in individuals for the following positions:

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CAREER**
Opportunities

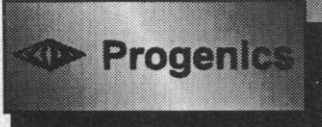
STAFF SCIENTISTS/ INVESTIGATORS

Ph.D. and a minimum of 2 years' post-doctoral experience in immunology, molecular biology, oncology or virology are required. Industrial and/or supervisory experience a plus. Expertise required in one or more of the following: vaccine development, monoclonal antibody production and characterization, optimization of protein expression in eucaryotic and/or procaryotic systems, radioconjugation of antibodies and ligand binding analysis, and assay development and validation.

RESEARCH ASSOCIATES

Individuals with a B.S. or M.S. and a background in one or more of the following areas: immunology, cell and molecular biology, virology or oncology.

Candidates should send their CV., a description of their experience and the names and addresses of three references to: **Human Resources II, Progenics Pharmaceuticals, Inc., P.O. Box 549, Tarrytown, NY 10591. EOE.**



BIOCHEMISTRY AND MOLECULAR BIOLOGY

Excellent facilities, support, and research environment available for an established or highly promising research investigator in biochemistry, molecular biology, and/or cell biology. Candidates with an interest in the molecular genetics of higher or lower eukaryotic organisms are particularly encouraged to apply. An interest in teaching in Mayo Graduate School and/or Mayo Medical School is desirable. The level of the appointment will be commensurate with the qualifications. Women and members of minority groups are encouraged to apply. Research interests of current faculty may be found on our web site: <http://www.mayo.edu/mgs/biochem.htm>. Send curriculum vitae, bibliography, and three letters of reference to:

Eric D. Wieben, Ph.D.

**Department of Biochemistry and
Molecular Biology**

Mayo Medical School

200 First St. SW

Rochester, MN 55905

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

BOTANIST/SYSTEMATIST: TENURE-TRACK ASSISTANT PROFESSOR OF BIOLOGY with broad background, to teach in the areas of systematics, bryology, mycology, and/or algology; and advanced courses in area of specialization. The candidate should be qualified to rotate into biology major core curriculum courses, such as introductory biology. Exact course assignments will be subject to the candidate's qualifications and the needs of the department. Preferred specialization: molecular and/or multivariate systematics of nonvascular plants, fungi, or algae. The successful candidate must develop a research program involving undergraduate and graduate M.A. students and must seek extramural funding for their research. Ph.D. required; teaching experience and recent research experience preferred. Appointment begins August, 1997. *Equal Opportunity/Affirmative Action Employer.*

DEVELOPMENTAL BIOLOGIST: TENURE-TRACK ASSISTANT PROFESSOR with broad background, to teach in content areas of developmental biology, molecular biology, and advance courses in area of specialization. The candidate should be qualified to rotate into biology major core curriculum courses, such as introductory biology, cellular biology, and genetics. Ability to teach service courses such as introductory human anatomy and physiology is desirable. Exact course assignments will be subject to the candidate's qualifications and the needs of the department. Preferred specialization: mechanisms of development in eukaryotes. The successful candidate must develop a research program involving undergraduates and graduate M.A. students and must seek extramural funding for their research. Ph.D. required; teaching experience and recent research experience preferred. Appointment begins August, 1997. *Equal Opportunity/Affirmative Action Employer.*

Request an official application and send curriculum vitae, transcripts, three letters of recommendation to: **Dr. Tom Mallory, Chair, Department of Biology, California State University, Fresno, Fresno, CA 93740-8034. (Email address: thomas_mallory@csufresno.edu; Fax number: 209-278-3963; Web page: <http://erasmus.biol.csufresno.edu>).** For fullest consideration, have application in by February 10, 1997.



Earth Systems Science Scientists

Landsat Science Team

Landsat Science Team Leader (Samuel N. Goward) seeks two Ph.D. Earth Systems Scientists to pursue research in support of the NASA Mission to Planet Earth Landsat program. The positions are located at the Laboratory for Global Remote Sensing Studies, Department of Geography, University of Maryland at College Park. The appointments are Assistant Research Scientists with promotion potential. Research will focus on development of Landsat-7 potential for global-scale Earth systems science studies as well as definition of possible future Landsat-type missions. Particular elements of the work include 1) definition of a periodic, global refresh acquisition strategy to capture terrestrial seasonality and other dynamics, 2) development and implementation of advanced data management systems for processing and analysis of Landsat and allied data sets, 3) development and implementation of automated land cover classification procedures which incorporate spectro-temporal knowledge of terrestrial dynamics. In addition, both scientists will support the operations of the Landsat Team Leader Office at UMCP. Activities include facilitation of national team member activities and coordination with the Landsat Science Project Office at the NASA Goddard Space Flight Center.

Position one will serve as the Deputy Team Leader, representing the Team Leader interests in various capacities. Effective communications and interpersonal skills are a must. Position two will provide leadership in development of Landsat global refresh acquisition strategy and data management systems development. Well developed skills in UNIX computer operations and large volume data management required. In addition, both individuals are expected to define specific research programs, within the context of the previously noted activities, which develop Landsat global-scale Earth systems science potential. Particular interest will be given to the areas of land cover dynamics and human dimensions of global change.

Applications should submit a letter of intent, curriculum vitae, and name/address/phone number of three references by February 7, 1997 to **Dr. Kevin Czajkowski, Dept. of Geography, 2181 Lefrak Hall, College Park, MD 20742. UMCP is an Equal Opportunity/Affirmative Action Employer.**



**Program Managers / Scientists / QC Supervisor /
Research and QC Assistants or Associates**

Introgen Therapeutics, Inc. is focused on the development of gene therapeutics for the treatment of cancer. Our strategy is to seek rapid clinical development and regulatory approval of treatments for these life-threatening diseases. Our ongoing clinical trials use p53 gene replacement and *K-ras* antisense expression to treat lung, head, and neck cancers. Interim results of one of our phase I clinical studies have recently been published (see Roth, J. A., et. al., *Nature Medicine* **2**(9):985-991, 1996). We are looking for skilled and dedicated scientists to continue this exciting and important work.

Project Leader - Pre-clinical Models

The successful applicant will head a small team (1-2 individuals) in testing candidate constructs in animal models. We seek an individual with a Ph.D. plus 3 years of relevant experience who can design, execute, and analyze *in vivo* studies focused on anti-tumor effects. This individual must have excellent communication and organizational skills as he/she will interact closely with numerous investigators both within and outside the Company.

Project Leader - Mechanistic Studies

We wish to better understand the mechanisms by which our therapeutic constructs mediate anti-tumor effects. For this, we seek a Ph.D. biochemist with 4+ years of experience and expertise in one of the following areas:

Mechanisms of apoptosis and growth arrest

Angiogenesis

Analysis and purification of peptides, lipids, nucleotides, or other small biomolecules.

Experience with cell culture models is required and with animal models is preferred. This individual will oversee the work of 3 staff members; previous supervisory experience is desired.

Scientist - Mechanistic Studies

This individual will work within a team focused on elucidating the mechanisms by which therapeutic constructs mediate anti-tumor effects. This individual should have a Ph.D. with 3 years of postdoctoral experience in one of the following areas:

Anti-angiogenesis

Mechanisms of apoptosis

Analysis and purification of peptides, lipids, nucleotides, or other small biomolecules.

Experience with cell culture models is required and with animal models is preferred.

Scientist - Molecular Biology

The successful candidate will be working within a team focused on bringing new genes from a basic research setting into pre-clinical testing using viral vectors as the delivery system. A Ph.D. with at least 3 years of post-doctoral work is necessary. We require extensive molecular biology skills, and at least several years of experience working with mammalian cells at the level of RNA, DNA, and protein. This scientist is expected to be intellectually aggressive, display good communication skills, and play an active role in our decision-making processes.

Scientist - Non-Viral Delivery Group

We seek a scientist with a Ph.D. plus 2+ years relevant experience in the formulation of lipid-based delivery systems. This individual should have good communication skills as he/she will participate in collaborative projects involving non-viral vectors.

Scientist - Clinical Support

The successful applicant will work with a dedicated team to develop and optimize assays to support Introgen's clinical trials. We seek a Ph.D. with strong skills in molecular biology plus experience in assay development. Expertise in PCR and RT-PCR is required, and experience in *in situ* PCR and *in situ* hybridization is desired. Since this individual will interact closely with both Research and Clinical Affairs Departments, he/she must have excellent communication and organizational skills.

Research and QC Assistants and Associates - Molecular Biology / Cell Culture

We seek individuals with 3+ years of experience in molecular biology and/or cell culture systems.

Project Management

This position will be responsible for overseeing internal and extramural projects at all phases of development and complexity from the prospective of corporate resources and objectives. Facilitates information flow and planning within project teams. Works closely with project leaders and senior management to identify critical paths and resource constraints. Masters or Ph.D. in a scientific discipline required, as well as prior project management experience in a technical environment.

We are a young, enthusiastic, rapidly growing company located in Houston, TX, near the Texas Medical Center, one of the largest medical centers in the world. We have a modern, spacious research facility, and a positive work environment. Introgen offers an attractive salary and benefits package commensurate with the expected contribution.

Send or FAX your resume and research summary to:

**Human Resources
Introgen Therapeutics, Inc.
8080 N. Stadium Dr., Suite 1200
Houston, TX 77054
FAX 713.797.9960**

Please specify the position for which you are applying.

The Science of Agricultural Genetics

RESEARCH MANAGER

Insect Resistance - Crop Protection
(Job #CP-703)

A Research Manager is needed in the area of insect resistance management and development of resistance management strategies for use with transgenic crops, especially corn. This scientist will work closely with internal researchers, external collaborators, and government agencies to implement resistance management programs. The successful candidate will develop programs to ensure compliance with EPA registration requirements; develop strategies to monitor resistance development in target insect species; and help develop strategies to prevent/delay the development of insects resistant to the active component of the transgenic crop(s). Participation in research to develop other insect resistant transgenic crops is expected. Minimum requirements are a Ph.D. and 2 years experience or a M.S. degree and 5 years practical experience with transgenic crops. Candidates must have experience with integrated pest management and transgenic crops engineered for resistance to insect pests. Experience with the EPA and registration of transgenic crops is desired. Other qualifications include experience with insect resistant transgenic crops; ability to work in both laboratory and field settings; familiar with entomology research and integrated pest management practices. Experience with resistance management strategies, especially pertaining to *Bacillus thuringiensis* endotoxins is also desired.

Pioneer Hi-Bred International, Inc. offers an opportunity to interact among hundreds of scientists with diverse backgrounds. We offer competitive salaries and excellent, comprehensive benefits. Des Moines is a prospering heartland city that ranks well above the national averages in affordability and education. Our location provides a mix of beautiful open spaces and city life advantages. For confidential consideration send 3 copies of your resume and cover letter indicating job number by January 24, 1997 to: Pioneer Hi-Bred International, Inc., Attn: PERSONNEL (Job #CP-703), P.O. Box 1004, Johnston, IA 50131-1004.

Pioneer Hi-Bred International, Inc., is the world leader in agricultural genetics. Founded in 1926, we are a publicly held company that invests more than \$115 million in research and product development. Pioneer® brand products are grown in almost every crop-producing continent in the world. At our headquarters in Des Moines, Iowa, we're adding to our Research team.



**PIONEER HI-BRED
INTERNATIONAL, INC.**
An Equal Opportunity Employer

ID Vaccine Corporation (IDV) is engaged in research, development and commercialization of vaccines for the prevention of human infectious diseases. A subsidiary of ID Biomedical, a Canadian-based biotechnology company, IDV is dedicated to the discovery and development of new human vaccines. IDV currently has an opening for the following senior position:

DIRECTOR

Department of Immunology

The selected candidate will be responsible for establishing immunology laboratories, including the recruitment of subordinate scientific personnel, for various human vaccine research and development. We are seeking an independent investigator with broad knowledge in human vaccines and demonstrated ability to organize and lead various projects. This position requires a Ph.D. in immunology, biochemistry or a related field, with 7-10 years experience. Strong background in both humoral and cellular immunity is essential.

This position will be part of IDV's senior research team and will work closely with the Senior Vice President, Research and Development to establish IDV's scientific laboratory. All applicants should possess excellent written and oral communication skills. IDV is currently located in a suburb of Seattle, WA, consistently rated one of the most livable cities in the U.S. We offer competitive compensation and benefit packages. Qualified candidates are invited to mail or fax resumes to:

ID Vaccine Corporation
Research and Development
3445 Carillon Point
Kirkland, WA 98033
Fax: (206) 844-9101

NRC-CNRC

NRC is a dynamic, nationwide R&D organization committed to helping Canada realize its potential as an innovative and competitive nation. Combining our strengths - outstanding people, core science expertise and information, research programs focused on key technologies and technology diffusion - with those of industrial and academic partners, we foster Canada's emerging national system of innovation.

For its Institute for Biological Sciences (IBS), NRC seeks a **neurobiologist** for the position of:

Director, Cell Biology Program (IBS)

Reference #B5-96-42 (Salary \$68,598 - \$84,975)

The Director will lead the Program in its research effort directed to therapies for cellular damage and the restoration or improvement of brain function in specific neurodegenerative diseases. The program has strengths in the following areas: apoptosis, ions and ion channels, neurotransmitters and their receptors, cell signaling enzymes, non-neuronal cells of the CNS, blood-brain barrier, and neuroplasticity.

The research program consists of a team of about 50 staff, with an operating budget of almost \$4M, 20% of which includes revenues generated through collaborative research projects.

Candidates must have: a recognized Ph.D. with a specialization related to the duties of the position; extensive experience in the conduct of research related to neurobiology; and recent experience in the management of a multidisciplinary and multifaceted research program which includes the transfer of technology to industry and other scientific organizations.

Knowledge of English and French is required. Unilingual persons may apply but must indicate their willingness to become bilingual and demonstrate the requisite abilities to achieve the required levels of linguistic proficiency. A security clearance at the level of secret is required.

To explore this opportunity, send your application by February 28, 1997, **indicating reference number B5-96-42, to: Recruitment and Staffing Group, National Research Council Canada, Montreal Road, Building M-58, Ottawa, Ontario K1A 0R6.**

NRC is an equal opportunity employer. We thank all those who apply and advise that only those selected for further consideration will be contacted.

Vous pouvez obtenir ces renseignements en français.



**National Research
Council Canada** **Conseil national
de recherches Canada**

Canada

MOLECULAR BIOLOGISTS/ GENETICISTS

The Garden State Cancer Center, a free-standing, private, non-profit basic and clinical research center serving the Northern New Jersey area invites applications for one or more faculty positions (at a level commensurate with the candidates qualifications) in the areas of Molecular Biology and/or Genetics.

Candidates should have an outstanding record as an independent investigator evidenced by significant research accomplishments, publications, and success in obtaining external funding. Areas of special interest include oncogene function, molecular diagnostics and gene therapy of cancer and related premalignant conditions.

Applicants should provide a curriculum vitae, brief statement of research interests and plans, a listing of current peer-reviewed grants, and the names and addresses of four references to: **Dr. David M. Goldenberg, President, Garden State Cancer Center, 520 Belleville Avenue, Belleville, NJ 07109.** Or e-mail: gscancer@worldnet.att.net

**Garden State
Cancer Center**

An Equal Opportunity/Affirmative Action Employer.

Gene Regulation - The Future In Drug Discovery

Signal Pharmaceuticals, Inc. is at the forefront of scientific advances in intracellular signaling and gene regulation. Our focus is on the discovery of small molecule drugs that regulate gene expression and production of disease-associated proteins. We have a strong research program focused on the cloning and characterization of novel targets involved in signal transduction and gene expression, in particular MAP Kinase cascades. We are seeking highly motivated candidates with excellent interpersonal skills for the following positions:

The ability

to regulate

selective

Gene

Expression

provides a

powerful

opportunity

to treat a

wide variety

of diseases.

BONE DISEASES/OSTEOPOROSIS PROGRAM

The research team is responsible for identifying novel genes and determining through innovative research approaches their biological role in bone mitogenesis and resorption. This knowledge is applied to the development of novel drug screening assays and validation of new therapeutics.

SCIENTIST

Requires Ph.D. or M.D. and a strong background in intracellular signaling, protein kinases/phosphatases and gene regulation. Experience with bone cell biology and yeast molecular genetics is desired. (Code: BDS-BS)

RESEARCH ASSOCIATE

Position will be responsible for utilizing novel approaches for studying bone metabolism, validation of compounds in bone formation and resorption assays, and development of prototype screening assays. Candidate will have a BS/MS in Biology or related and 3+ years of laboratory experience in molecular biology and biochemical techniques, as well as mammalian tissue culture. Additional skills, including yeast molecular genetics, are a plus. (Code: BDR-BS)

DRUG DISCOVERY & PHARMACOLOGY

This dept. is responsible for the identification of lead compounds for multiple drug discovery programs, including inflammation and osteoporosis. Novel molecules are identified using state-of-the-art HTS technologies, including cell-based and enzymatic assays. These compounds are evaluated for potency and specificity, then optimized in collaboration with other research depts.

PHARMACOLOGIST/SCREENING GROUP LEADER

Requires Ph.D. with minimum 5 years of industrial training and experience in the development/execution of cell-based assays (i.e. reporter gene assays) and HTS evaluation of samples. Working knowledge of cell and molecular biology, robotics, and data management systems essential. (Code: PSG)

EXPERIMENTAL THERAPEUTICS

This research team is responsible for the identification of differentially regulated genes and their validation as therapeutic targets. Team members are experts in gene regulation and/or signal transduction and are highly active in internal/external collaborations.

SCIENTISTS

Positions are available for highly-motivated, independent Ph.D./M.D. interested in working in an aggressive, interactive team environment. Knowledge of current functional genomic technologies is highly desirable. (Code: ETS)

NEUROBIOLOGY

This dept. is developing human PNS and CNS lines to facilitate the discovery of new drugs and drug targets. These proprietary cell lines are being used in the areas of neurotransmitter receptors and ion channels, new gene discovery and apoptosis.

CELL BIOLOGIST

Requires extensive experience with culture of primary neuronal cells and neuronal cell lines. Ph.D. and experience with immortalization techniques, immunocytochemistry and *in situ* hybridization preferred. Knowledge of neuronal and glial cell lineage, growth factors, intracellular signaling, and ion channels and receptors desired. Experience with molecular biology techniques a plus. (Code: NBD)

We reward the dedicated efforts of our team with competitive salaries and generous benefits, including equity participation. Join forces with a company that thrives on the dynamic challenges of breakthrough medical research. Please send resume, indicating position of interest, to: Signal Pharmaceuticals, Inc., Attn: L. Cain, 5555 Oberlin Dr., San Diego, CA 92121; Fax: (619) 558-7513; or E-mail: lcain@signalpharm.com EOE.



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<http://www.chem.umn.edu/orgs/ampepsoc/apshome.html>

POSITIONS OPEN

JIEE EXECUTIVE DIRECTOR

Applications are solicited for **EXECUTIVE DIRECTOR** of the Joint Institute of Energy and Environment (JIEE), a research collaboration of Oak Ridge National Laboratory, the Tennessee Valley Authority, and the University of Tennessee. JIEE is housed at and administered by the University of Tennessee, Knoxville. Additional information on JIEE is available on-line at: <http://www.jiee.org>.

Qualifications include exceptional leadership ability with an earned doctorate and nationally recognized achievement in areas encompassed by JIEE. Eligible candidates may come from a wide range of experiences related to regional, national, and global energy and environmental research, practice, and policy.

Applications are requested before February 15, 1997, but will be accepted until the position is filled. The desired starting date is no later than July 1, 1997. Direct inquiries and applications to: **Dr. Mike Devine, Vice Chancellor for Research, The University of Tennessee, 404 Andy Holt Tower, Knoxville, TN 37996-0140. UTK is an Equal Employment Opportunity/Affirmative Action/Title IX/Section 504/ADA/ADEA Employer.**

UNIVERSITY OF HOUSTON COLLEGE OF OPTOMETRY

Pathophysiology/Immunology/Molecular Biology

The Department of Basic Sciences is recruiting to fill a **TENURE-TRACK** position for an individual with expertise in the fields of pathophysiology, immunology, cell or molecular biology, and pharmacology related to the eye. The position requires a Ph.D. and/or an advanced clinical degree. Academic rank and salary will depend on qualifications and experience. The successful candidate will be expected to develop and maintain a strong, independent research program capable of attracting external grant support. In addition, the candidate will be expected to teach aspects of systemic and ocular physiology and pathophysiology, immunology, and general and ocular pharmacology to professional and graduate students. Review of applications will begin January 15, 1997. Applicants should submit a curriculum vitae, detailed research plans, a statement of career goals, and have three letters of reference sent to: **Dr. Roger Boltz, Associate Dean for Professional Studies, University of Houston, College of Optometry, Houston, TX 77204-6052. Email: boltz@uh.edu. The University of Houston is an Equal Opportunity/Affirmative Action Employer.**

Education—**FACULTY POSITION** in Food Biochemistry—University of Delaware. The Department of Animal and Food Sciences invites applications for a 12-month tenure-track faculty position at the Assistant Professor level. We are searching for a **BIOCHEMIST/BIOLOGIST** with research interests in the general areas of food biochemistry, food science, or food biotechnology. Applicants should hold a Ph.D. in an appropriate discipline and have postdoctoral experience. The successful candidate is expected to develop/maintain a high quality, extramurally funded and contemporary research program. Teaching responsibilities (50%) are directed at both undergraduate and graduate students. More information about the University of Delaware and the position can be obtained through the following web site: (<http://www.udel.edu>). Applicants should arrange to have a curriculum vitae, a statement of research interests, and four letters of recommendation sent by February 28, 1997 to: **Food Biochemist Search Committee, Department of Animal and Food Sciences, University of Delaware, Newark, DE 19717-1303. FAX: 302-831-8177; Email: ckeeler@udel.edu. The University of Delaware is an Equal Opportunity Employer that encourages applications from minority group members and women.**

ASSISTANT PROFESSOR OF EPIDEMIOLOGY/TENURE TRACK

The Department of Biomedical Sciences, University of Illinois College of Medicine at Rockford seeks a person with a doctoral degree in epidemiology or related field and a strong record of research. Duties include directing student research, providing formal instruction in epidemiology for students of medicine and allied professions, and research in the individual's area of interest. Send curriculum vitae, statement of research and teaching interests, and names and addresses of three references, by March 1, 1997, to: **Dr. Ian Hentall, Epidemiologist Search Committee, Department of Biomedical Sciences, University of Illinois College of Medicine at Rockford, 1601 Parkview Avenue, Rockford, IL 61107-1987. The University of Illinois is an Affirmative Action/Equal Opportunity Employer.**

POSITIONS OPEN

FACULTY POSITION UNIVERSITY OF CALIFORNIA, IRVINE

The Department of Physiology and Biophysics invites applications for a faculty position at the **PROFESSOR** level. We are seeking candidates who would establish a major research effort in proteins, crystallography, and maintain an x-ray diffraction facility. The successful candidate will have a significant track record of solving protein structures and interest in collaborations with existing research projects in the department and on the UCI campus. The position will involve teaching both medical students and graduate students. We will accept applications until March 1, 1997. Send a curriculum vitae, a research description, and letters from three references to: **Janos K. Lanyi, Chair, Department of Physiology and Biophysics, University of California, Irvine, CA 92697-4560. University of California is an Equal Opportunity/Affirmative Action Employer committed to excellence through diversity.**

BIOLOGICAL SCIENCES

Bowling Green State University is seeking two tenure-track **FACULTY** beginning August 1997. Department emphases are in ecology and molecular biology; positions will interface these areas to enhance research interactions across the department. Applicants must have Ph.D. and postdoctoral experience, and will conduct extramurally-funded research program involving M.S./Ph.D. students. **ASSISTANT PROFESSOR** preferred but all ranks considered.

MICROBIAL ECOLOGIST: Applicants whose research includes bioremediation of toxic substances/re-source mediation within microbial communities encouraged to apply, although other areas considered. Candidate will teach undergraduate microbiology and graduate course in area of expertise.

CELL SIGNALING: Applicants sought who examine cellular responses to external signals. Appropriate research areas include ligand-receptor interactions, chemotaxis, molecular plant-pest or host-parasite interactions, or signal transduction in any microbial/eukaryotic system.

Applicants must have proof of legal authority to work in the United States and should submit a curriculum vitae, three reference letters, and statement of research/teaching goals by February 15, 1997 to: **Dr. George Buller-Jahn, Department Chair, Microbial Ecology or Cell Signaling Search Department of Biological Sciences, Bowling Green State University, Bowling Green, OH 43403-0212. BGSU is an Affirmative Action/Equal Employment Opportunity Employer and encourages applications from women, minorities, veterans, and persons with disabilities.**

SCIENTIST/ASSISTANT OR ASSOCIATE PROFESSOR TULANE UNIVERSITY DEPARTMENT OF UROLOGY

Applications and nominations are requested for a tenure-track **RESEARCH SCIENTIST/ASSISTANT or ASSOCIATE PROFESSOR**. Ph.D. (molecular biology or microbiology with postdoctoral training) and knowledge of immunology to continue an established and recognized research program in host-pathogen interactions in urological diseases. The successful candidate must be an innovative and creative researcher with the ability to compete for extramural funding and also contribute to teaching of residents/fellows/medical and graduate students. Primary appointment in urology; adjunct appointment in the Department of Microbiology and Immunology. Please submit curriculum vitae and names and addresses of three references to: **Dr. Raju Thomas, Chairman, Department of Urology, Tulane University School of Medicine, SL-42, 1430 Tulane Avenue, New Orleans, LA 70112. Immediate opening. Tulane University is an Equal Opportunity Employer.**

Biologist, Ph.D., **ASSISTANT PROFESSOR**, tenure-track. The University of Texas of the Permian Basin, to begin fall semester 1997. \$35,000. Applicant should be able to teach vertebrate and invertebrate zoology, animal behavior, ecology, appropriate portions of general biology and graduate courses in area of interest. A commitment to excellent teaching is necessary. Research is encouraged and expected. UTPB provides an atmosphere that encourages interaction between faculty and students. Submit résumé and the names, addresses, and telephone numbers of three references to: **R. Douglas Spence, Program Coordinator for Biology, UTPB, 4901 East University, Odessa, TX 79762. Telephone: 915-552-2272. FAX: 915-552-2374. Email: spence_d@utpb.edu. UTPB is an Affirmative Action/Equal Opportunity Employer. Screening of applicants commences February 24, 1997.**

POSITIONS OPEN



The University of Western Ontario

The Department of Physiology, Faculty of Medicine, University of Western Ontario invites applications for a tenure-track appointment as **ASSISTANT PROFESSOR**. Applicants must have a Ph.D. (or equivalent) and appropriate postdoctoral experience. Training in molecular biology as applied to problems in developmental or reproductive biology is required. The successful candidate will be expected to establish an independent, externally funded research program that complements existing strengths of a newly formed research group in the department. The focus of this group is on fundamental cellular and molecular processes underlying testicular function, *in vitro* fertilization, early germ line and embryonic development, and blastocyst implantation. Preference will be given to those applicants whose research offers a clear potential for collaboration in these areas. A core facility for molecular biology exists in the department, and transgenic/gene targeting facilities are available at the university. The applicant will also contribute to graduate and undergraduate teaching. Review of applications will begin on March 15, 1997 and the position will remain open until filled. Applications, including selected reprints, a statement of research goals, curriculum vitae, and names of three references should be sent to: **Dr. R. L. Kline, Department of Physiology, Medical Sciences Building, The University of Western Ontario, London, Ontario, Canada, N6A 5C1.** For additional information about the Department of Physiology see: <http://www.physiology.uwo.ca/PhysiologyWeb/index.htm>.

Positions are subject to budget approval. In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents of Canada. The University of Western Ontario is committed to employment equity, welcomes diversity in the workplace, and encourages applications from all qualified individuals including women, members of visible minorities, aboriginal persons, and persons with disabilities.

The University of Washington is seeking a full-time faculty member at the **ASSISTANT PROFESSOR** level in the Division of Oncology's Program in Cellular Immunology. This individual must have M.D. or M.D./Ph.D. degrees and be a board certified oncologist with at least five years of experience in the care of patients undergoing hematopoietic stem of cell transplantation and in the care of patients infected by HIV. The individual must have expertise in cellular immunology and molecular biology, with research productivity evidenced by publications in peer-reviewed journals in these areas: effect of human viruses on antigen processing and presentation; genetic modification of human antigen-specific T cells to confer resistance to HIV infection; and adoptive transfer of T cells as therapy for human diseases. There is a requirement for teaching post-graduate fellows in both clinical and laboratory areas. A significant portion of the applicant's salary should be derived from external funding sources. Candidates should send a curriculum vitae, a concise statement of their research training, three letters of reference, and a letter of application to: **Robert B. Livingston, M.D., Head, Oncology, University of Washington, Box 3565043, Seattle, WA 98195-6043.** The closing date for applications is February 10, 1997. *The University of Washington is building a culturally diverse faculty and strongly encourages applications from female and minority candidates. The University of Washington is an Equal Opportunity/Affirmative Action Employer.*

The Cardiology Division, Department of Medicine at Columbia University, College of Physicians and Surgeons, is seeking full-time, tenure-track research physiologists or biochemists at the **ASSISTANT PROFESSOR** level. Candidates should have experience in biochemical correlates of contractile failure including molecular techniques, a history of publication, and grant support. Candidates should possess a Ph.D. or M.D. Send curriculum vitae to: **Steven Bergmann, M.D., Ph.D., Director, Nuclear Cardiology, PH 10-Stem 405, Columbia University, 630 West 168th Street, New York, NY 10032. We take Affirmative Action toward Equal Employment Opportunity.**

SYSTEMS ANALYST

At Amgen, you'll discover a research environment that emphasizes collaboration, intellectual honesty, scientific integrity, and a supportive culture. This unique approach has helped us grow into a global biotechnology leader in just fifteen years.

We seek an experienced Systems Analyst to support research efforts at our Boulder, CO facility. Responsibilities include providing process and systems analysis, technical support and training in support of small molecule chemistry, including sample banking and combinatorial chemistry. You will work with research scientists to determine their needs and manage implementation of suitable data management tools. Successful candidates must have a degree in Computer Science, Chemistry or Biology, or equivalent talent and five years of systems analysis experience in a biopharmaceutical research environment. Experience in the use, integration and implementation of chemistry research applications marketed by MDL, Tripos and Oxford Molecular, as well as custom applications of tools such as Excel, Lotus and/or MS Access is required. Excellent communication and project management skills and the ability to work in a multi-disciplinary team environment is essential.

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

At Amgen, you'll find our approach as rewarding as it is effective. We offer a highly competitive compensation and benefits package. Please mail your resume to: Amgen, Boulder, Human Resources, Job Code: BPSC, P.O. Box 19409, Boulder, CO 80308-2409. Please consult our on-line Web site at <http://www.amgen.com> or call our Job Hotline at 800-446-4007 for information on other career opportunities available at Amgen. Principals only, please.

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PRINCIPAL RESEARCH SCIENTIST

Join a company that has the unique distinction of building one of the world's smallest implantable defibrillators. Angeion Corporation offers the perfect foundation for motivated professionals who thrive on challenge, seek achievement and want to explore the full range of their talents. Our steady growth has created a career opportunity for a seasoned research professional to conduct research in cardiac defibrillation, evaluate advanced concepts for implantable defibrillators, and support current development programs. We'll also rely on your expertise to coordinate clinical research projects with cardiac electrophysiologists as well as generate patents, prepare presentations and publish scholarly articles.

Qualifications for this challenging position include a Ph.D. degree in biomedical engineering or related discipline, BS or MS degree in mechanical or electrical engineering and 5 years' post-doctoral work/training in lab experimentation. Advanced capabilities in experimental design and statistics as well as 1-2 years' animal experimentation experience are also necessary.

We offer a friendly, stimulating environment, outstanding opportunity for professional accomplishment, the challenge inherent in a burgeoning business and a compensation/benefits package worthy of your finest effort. Please send/fax your resume to: HR Dept./Science, ANGEION CORPORATION, 3650 Annapolis Lane, Suite 170, Plymouth, MN 55447-5434. Fax: (612) 550-7680.

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...of drug development research with the DuPont Merck Pharmaceutical Company. We are focused on meeting unmet medical needs through the discovery and development of innovative compounds leading to novel pharmaceuticals.

Associate/Staff Scientist

The ideal candidate will participate in the activities of the DNA sequencing laboratory in providing high quality sequencing needs to various therapeutic areas. Daily responsibilities will include the preparation of DNA templates and oligonucleotide primers for sequencing, DNA sequencing using ABI fluorescent sequencers, and the analysis of DNA sequence data using state of the art bioinformatics software. BA/BS in Molecular Biology/Biochemistry is required; an advanced degree (MS) is desired. The candidate will have experience with various molecular biology protocols for DNA isolation and purification, expertise in methods for DNA sequencing and computer analysis methods. Familiarity with FDA Good Laboratory Practice regulation is desired. Good oral and written communication skills and good interpersonal skills are required to effectively perform this job. (Code: SD-KA)

Bioinformaticist

The ideal candidate will be part of the DNA sequencing/bioinformatics group and have responsibility for administration of a UNIX-based computing environment dedicated to DNA and protein sequence analysis. This job will also include the set-up and operation of various computational biology software packages as well as sequence database development. The individual is expected to interact with various Therapeutic areas by providing bioinformatics solutions to enhance ongoing research. BA/BS in Computer Science is required; an advanced degree (MS) is desirable. Some background in Biology/Molecular Biology is also desirable. The candidate will have experience in the following areas: UNIX system administration, C/C++ programming, Web-related programming including HTML/Perl/CGI, and background in database development, preferably with Oracle. Good oral and written communication skills and good interpersonal skills are required to effectively perform this job. (Code: SD-B)

Our location, near Wilmington, DE, offers an attractive lifestyle with easy access to all the cultural, academic and recreational activities of the Eastern Seaboard. The DuPont Merck Pharmaceutical Company can offer you an excellent compensation and benefits package. To be considered, please forward your resume, indicating position of interest, to: Human Resources-(Code), The DuPont Merck Pharmaceutical Company, Experimental Station, 400/2413, P.O. Box 80400, Wilmington, DE 19880-0400. An equal opportunity employer, M/F/D/V.

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POSITIONS OPEN

The Department of Crop Sciences at the University of Illinois at Urbana-Champaign is seeking applications for a tenure-track **ASSISTANT PROFESSOR** of Molecular Weed Science position. Plant molecular biology position with emphasis on fundamental weed science research and teaching. This is a nine-month tenure-track position with opportunity for summer appointment. Responsibilities will be a 70% research and 30% teaching appointment in the Department of Crop Sciences. The successful applicant is expected to develop an effective extramurally funded weed molecular biology research program that will apply molecular biology approaches to solve fundamental problems of weed ecology/biology in agronomic crops. Possible research areas include, but are not limited to, the development of herbicide resistance in weed populations, the molecular basis for weed seed dormancy, and the genetic and physiological factors associated with interplant competition. The incumbent will actively participate in teaching programs of the department, including advising undergraduate students and directing graduate student research. The incumbent will teach one course related to weed science per academic year and will participate in departmental instruction of non-agriculture students. A Ph.D. in plant science or related area is required. The candidate must possess excellent interpersonal and communication skills; demonstrated ability to design, conduct and report independent research; and a clear ability and desire to excel in classroom teaching. Salary commensurate with training and experience. Starting date will be April 1, 1997, or when a suitable candidate is available. For full consideration, applications will be accepted until February 14, 1997 or thereafter until a suitable candidate is identified. Interested persons are requested to complete an application dossier consisting of a statement of research goals; a statement of teaching goals; a curriculum vitae; and copies of transcripts. Applicants must arrange for receipt of three letters of reference and the completed dossier by: **Professor G. H. Heichel, Head, Department of Crop Sciences, University of Illinois at Urbana-Champaign, 1102 South Goodwin Avenue, Urbana, IL 61801. Telephone: 217-333-9480.** For additional information contact: **Dr. Edward W. Stoller, Department of Crop Sciences, University of Illinois at Urbana-Champaign, 1102 South Goodwin Avenue, Urbana, IL 61801. Telephone: 217-333-9654; FAX: 217-333-5499; Email: estoller@staff.uiuc.edu.**

The University of Illinois is an Affirmative Action/Equal Opportunity Employer. Please cite announcement number 11/96A-5355 when applying.

FACULTY POSITION IN MICROBIAL ECOLOGY OF SOIL-BORNE PLANT PATHOGENS UNIVERSITY OF CALIFORNIA, RIVERSIDE

The Department of Plant Pathology, University of California, Riverside, invites applications for an 11-month tenure-track position at the **ASSISTANT PROFESSOR** level. The position will be available starting July 1, 1997 and carries a 25% teaching appointment and a 75% research appointment in the Agricultural Experiment Station. The successful applicant will be expected to develop an innovative research program on the microbial ecology of soil-borne plant pathogens. Areas of research may include, but are not limited to, ecology, epidemiology, biological control, soil chemistry, soil microbiology, physiology, or genetics, as they relate to the interrelationships between the soil microbial community and soil-borne plant pathogens. Opportunities exist to combine fundamental ecological research with the development of creative disease control strategies for a variety of root diseases, including those on citrus, avocado, grapes, strawberry, vegetables, ornamentals, and turfgrass. The appointee will be expected to contribute to undergraduate and graduate teaching and advising in their area of expertise, which could include microbial ecology, epidemiology, mycology, plant pathology or general microbiology. Applicants must have a Ph.D. in plant pathology, microbiology, or a related field, and have demonstrated an ability to conduct productive and creative research. Applicants should submit: a curriculum vitae, a statement of research and teaching interests, a complete list and selected reprints or preprints of publications, undergraduate and graduate transcripts, and three letters of reference to: **Dr. Donald A. Cooksey, Chair, Department of Plant Pathology, University of California, Riverside, CA 92521. Telephone: 909-787-4115; FAX: 909-787-4294; Email: donald.cooksey@ucr.edu.** Additional information about the department is available at <http://cnas.ucr.edu/~ppath/plantpath.html>. The application deadline is March 31, 1997. *The University of California is an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

NEUROSCIENCE ASSISTANT OR ASSOCIATE PROFESSOR Brown University

The Department of Neuroscience is seeking an individual with research interests in neural systems. This is a tenure-track position initially untenured with a three year renewable appointment to **ASSISTANT OR ASSOCIATE PROFESSOR**. Appropriate fields of study would include the neurobiology of sensory processing, motor control, learning and memory, and higher cognitive functions using experimental and/or theoretical approaches.

Candidates must have a Ph.D. or M.D. and postdoctoral experience, show evidence of ability to establish an independent, externally funded research program and demonstrate the potential for excellence in teaching. Brown has active graduate programs in neuroscience and cognitive science.

All applications received by March 1, 1997 will be given full consideration. Submit a curriculum vitae, a set of representative reprints, a concise description of research interests and goals, and arrange for three (Assistant Professor) to five (Associate Professor) letters of reference to be sent to: **Dr. John Donoghue, Search Committee, Neuroscience, Box 1953, Brown University, Providence, RI 02912.** *We encourage women and minority candidates. Brown University is an Equal Opportunity/Affirmative Action Employer.*

MOLECULAR PHARMACOLOGY ASSISTANT PROFESSOR Department of Pharmacology Dalhousie University

The Department of Pharmacology is seeking a faculty member (Ph.D./M.D., Ph.D.) at the **ASSISTANT PROFESSOR** level. We are looking for someone with two to five years of postdoctoral experience and interests in molecular pharmacology and the application of molecular biology to pharmacology and therapeutics. The Department has strengths in neuroscience, cardiovascular pharmacology and cancer and drug metabolism.

This position is a tenure-track appointment but the successful applicant will be expected to apply for salary support from appropriate granting agencies, including the Medical Research Council of Canada. The level of appointment and salary will depend on experience.

Please send a curriculum vitae, a statement of research interests, three recent reprints, and the names and addresses of three referees to: **Dr. H. A. Robertson, Head, Department of Pharmacology, Faculty of Medicine, Dalhousie University, Halifax, Nova Scotia, Canada B3H 4H7. FAX: 902-494-1388; Email: harold.robertson@dal.ca.** Information about the department can be found at: <http://is.dal.ca/~pnicholl/pharmacol.html>.

In accordance with Canadian Government policy, this advertisement is directed toward Canadian citizens and landed immigrants. Dalhousie University is an Employment Equity/Affirmative Action Employer. The University encourages applications from qualified women, aboriginal peoples, racial minorities, and persons with disabilities.

ASSISTANT PROFESSOR, BOTANY MIAMI UNIVERSITY-MIDDLETOWN

The Department of Botany at Miami University seeks applicants for a tenure-track position on the Middletown campus beginning August 1997. Duties include teaching (occasionally at off-campus facilities) introductory undergraduate lecture and laboratory courses in botany and participating in interdepartmental courses in biology. Other responsibilities include service appropriate to the regional campus mission and development of a scholarly program that involves undergraduates. Position requires Ph.D. in botany or closely related discipline and experience in and commitment to undergraduate teaching and advising. Send letter of application, one page statement of teaching philosophy, description of teaching experience, curriculum vitae, and three letters of recommendation to: **Dr. John L. Vankat, Search Committee Chair, Department of Botany, Miami University, Oxford, OH 45056.** Review of applications begins February 3, 1997. **Telephone: 513-529-4200; FAX: 513-529-4243; Email: jlvankat@miamioh.edu.**

Miami University does not discriminate on the basis of sex, race, color, religion, national origin, disability, age or sexual orientation in its employment policies.

POSITIONS OPEN

MUSCLE MOLECULAR BIOLOGIST PENNSYLVANIA STATE UNIVERSITY

The Department of Poultry Science is seeking applications for a tenure-track faculty position (85% research, 15% teaching) at the **ASSISTANT/ASSOCIATE PROFESSOR** level in muscle molecular biology, to begin July 1, 1997 (negotiable). The individual filling this position will be responsible for maintaining a competitive, extramurally funded research program in the area of muscle molecular biology with application to poultry meat production and processing; participating in team-teaching of an undergraduate course in animal biology/physiology; graduate level team-teaching as part of an inter-college graduate program in physiology; training and advising of graduate and undergraduate students; and serving as a resource for the poultry processing industry of Pennsylvania, which relies upon poultry muscle food as its commodity product. The individual should be capable of and interested in collaborative efforts with existing research programs in the Department, with the goal of enhancing the competitiveness and impact of the department's research, teaching and extension efforts. We are seeking an established scientist with extensive training in molecular methodologies and demonstrated leadership and team-building skills. The position carries a very strong support package and salary that is competitive and dependent, along with level of appointment, upon qualifications and experience. A Ph.D. in molecular biology, physiology, animal/poultry science, or a related field, a demonstrated track record of research productivity, excellence and funding; and evidence of teaching experience and excellence are required. Applicants should submit a letter of introduction (including research and teaching interests), complete curriculum vitae, graduate and undergraduate transcripts, and the names, addresses and telephone numbers of five persons who can provide letters of reference by March 31, 1997. Applicants and inquiries should be addressed to: **Dr. Regina Vasileatos-Younken, Chair, Search Committee, 203 William L. Henning Building, Box MMB2, The Pennsylvania State University, University Park, PA 16802. Telephone: 814-865-4642; FAX: 814-865-5691; Email: rxv@psu.edu.** *An Affirmative Action/Equal Opportunity Employer. Women and minorities encouraged to apply.*

The College of Pharmacy at Washington State University (WSU) has an annual, tenure-track **ASSISTANT/ASSOCIATE PROFESSOR** in pharmaceutical sciences position available July 1, 1997 or later. Salary/appointment commensurate with experience. Qualifications include Ph.D. and/or M.D. Research emphasis in immunology, immunotoxicology, or immunopharmacology is required with experience in the effects of alcohol on the immune system preferred. It is expected that the successful candidate will establish and maintain an extramurally funded research program. Duties include sustaining an independent extramurally funded research program, taking an active role in the development of an alcohol and immunology research core in the College of Pharmacy, teaching and directing graduate students in the pharmacology/toxicology graduate program, and providing instruction to pharmacy students in the professional doctorate program. In addition, the candidate is expected to participate in the NIH-funded training grant in alcohol/immunology. Application deadline is April 18, 1997. Applications should include a curriculum vitae and a statement of research interests and professional goals. Please have three letters of reference sent independently to the chair of the search committee. Send application to: **Gary G. Meadows, Ph.D., Chair, Search Committee, WSU College of Pharmacy, P.O. Box 646510, Pullman, WA 99164-6510. Telephone: 509-335-4753; Email: meadows@mail.wsu.edu.** *Washington State University is an Equal Opportunity Educator and Employer. Protected group members are encouraged to apply.*

FACULTY POSITION CARDIOVASCULAR RESEARCH JOHNS HOPKINS SCHOOL OF MEDICINE

The Division of Cardiology in the Department of Medicine at the Johns Hopkins University School of Medicine is searching for candidates for an **ASSISTANT PROFESSOR** tenure-track position. Applicants should have a strong record of research in vascular biology, with experience in molecular biology techniques. Send a brief statement of research interests, a curriculum vitae, and names of three references to: **Ken Baughman, Director, Cardiology Division, Department of Medicine, Johns Hopkins University School of Medicine, 536 Balloak, 600 North Wolfe Street, Baltimore, MD 21205.**

POSTDOCTORAL TRAINING

Cellular and Molecular Endocrinology

The Mount Sinai School of Medicine, in conjunction with a distinguished faculty of principal investigators, is offering MD and PhD training in cellular and molecular endocrinology. Fellowships, which include support for a graduate student program, are provided by an NIH-supported training program. Research areas include:

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Biology of GnRH secreting neurons
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Terry Davies, MD, Professor
Marie Gibson, PhD, Professor
Roman Osman, PhD, Assoc. Professor
James Roberts, PhD, Professor
Stuart Sealfon, MD, Assoc. Professor
Sherwin Wilk, PhD, Professor
Ravi Iyengar, PhD, Professor

Mount Sinai School of Medicine, located at Central Park and 99th Street, provides excellent modern research facilities and an outstanding scientific environment for postdoctoral training. Applicants must be US citizens or permanent residents, and applications from women and minorities are encouraged. Please forward curriculum vitae and names and addresses of three references to: **Principal Investigator, c/o: Dr. T.F. Davies, Endocrinology Training Program, Box 1055, Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574.** Equal Opportunity Employer. We foster diversity in the workplace.

The Mount Sinai Medical Center

TEXAS TECH
UNIVERSITY
HEALTH SCIENCES CENTER

Dean
College of Agricultural Sciences
& Natural Resources

Texas Tech University (TTU) invites applications and nominations for the position of Dean of the College of Agricultural Sciences and Natural Resources. The University is located in Lubbock, on the High Plains of Texas, in one of the largest agricultural producing regions of the country. TTU is a Carnegie Foundation Research II Institution and is one of four major comprehensive universities in Texas. The Institution has an enrollment of approximately 24,000 undergraduate, master's and doctoral students.

The College ranks among the 25 largest programs in the U.S. with an annual operating budget of \$4.3 million. The College operates more than 20,000 acres of agricultural and ranch land at four sites, including a teaching and research experimental ranch and the Burnett Center for Beef Cattle Research and Instruction. The College also houses the Texas Cooperative Fish and Wildlife Research Unit.

Reporting to the Provost, the Dean is responsible for academic and administrative leadership in six departments: Agricultural and Applied Economics, Agricultural Education and Communications, Animal Science and Food Technology, Landscape Architecture, Plant and Soil Science, and Range, Wildlife, and Fisheries Management. The Dean represents the College to the University and its constituents, and is expected to raise program funds. The position requires: (1) a record of distinguished scholarly achievement that would merit appointment as full professor; (2) demonstrated administrative experience, including budgeting and personnel management; (3) an educational perspective consonant with scholarly activities and professional service; and (4) demonstrated capacity for innovative leadership and work with academic constituencies, as well as with agricultural and natural resource clientele groups.

Screening of applications and nominations will begin on March 15, 1997. Candidates should submit a letter of application, curriculum vitae, and complete contact information for four references to:

Dr. David J. Schmidly, Vice President for Research and Graduate Studies, Texas Tech University, Box 41033, Lubbock, TX 79409-1033
Phone (806)742-2781, Fax (806)742-1746, E-mail: Schmidly@ttu.edu.

Texas Tech is an equal opportunity, affirmative action employer.

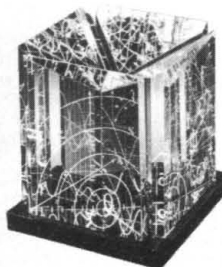
Call for
Nominations
1997

Research is often
its own reward...

\$100,000 Diabetes Care
Research Award presented by
Boehringer Mannheim/
Juvenile Diabetes Foundation
International

Boehringer Mannheim and the Juvenile Diabetes Foundation International announce the call for entries for the 1997 Diabetes Care Research Award. The award was created to stimulate innovation in the field of diabetes research leading to practical advances in prevention, detection, treatment or cure of diabetes. The \$100,000 award is the most substantial in this field.

Nominations are invited from diabetes researchers, age 45 or younger, who are engaged in basic or clinical research which has been partially performed in the past five years.



The search continues for the 1997 award winner.

Entries must be postmarked by Monday, March 31, 1997. For further information, or to receive nomination forms, contact:

Dr. Joachim Thiery
Boehringer Mannheim Patient Care
Telephone: +49 621 759 3142
Fax: +49 621 759 4179

JDF

Juvenile Diabetes Foundation International
The Diabetes Research Foundation



POSITIONS OPEN

FACULTY POSITION SIGNAL TRANSDUCTION/CELL CYCLE

The Department of Molecular Genetics, Biochemistry, and Microbiology invites applications or nominations for a tenure-track **ASSISTANT PROFESSOR** in signal transduction and/or cell cycle regulation. We are particularly interested in adding individuals with novel approaches and who will take advantage of the new genomics. Our 26 full-time faculty maintain strong active research programs in a variety of disciplines including gene expression; human genetics; membrane transport; molecular and cellular immunology; structural biology; virology; and differentiation and cancer biology. We support an active graduate program and maintain core facilities for production of transgenic and knockout mice and DNA synthesis and sequencing. We are the lead department in the NHLBI-sponsored Program of Excellence in Molecular Biology of the Heart and Lung, and have recently made a major commitment to development of structural biology. In addition to underscoring our commitment to the development and growth of outstanding research programs, these factors contribute to a collegial atmosphere in which synergistic interactions among programs is greatly facilitated. Interested applicants should submit a curriculum vitae, brief description of research program, and the names of three qualified references to: **Jerry B. Lingrel, Ph.D., Professor and Chair, Department of Molecular Genetics, Biochemistry and Microbiology, University of Cincinnati College of Medicine, 231 Bethesda Avenue, Cincinnati, OH 45267-0524.**

The Department of Biology invites applications for three positions beginning August 1997. Position 1: Biologist/Mammalogist, tenure-track, **ASSISTANT PROFESSOR**. Duties include teaching mammalogy, zoology, and an upper-level course in area of expertise: collection, curation, and research. Chair: **Dr. Steven Mills**. Position 2: Systematist/Botanist, tenure-track, **ASSISTANT PROFESSOR**. Duties include teaching plant identification, general botany, and an upper-level course such as plant physiology or ecology; herbarium curation; and research. Chair: **Dr. David Castaner**. Position 3: Botanist/Ecologist, non-tenure-track. Duties include teaching field natural history, plant ecology; participating in general ecology and general botany courses; and involving students in research. Chair: **Dr. F. R. Voorhees**. Requirements: Ph.D. and full-time university teaching experience. Teaching is the highest priority in the department so evidence of excellence in teaching will be given priority. Send letter of application (state position number), curriculum vitae, transcripts of all college work, names, addresses, and telephone numbers of three professional references to: **Search Chair, Department of Biology, Central Missouri State University, Warrensburg, MO 64093-5053. FAX: 816-543-8006.** Review begins February 15, 1997 and continues until filled. *Affirmative Action/Equal Employment Opportunity/ADA Employer.*

MARICULTURIST WITH MOLECULAR AND GENETIC EXPERTISE

ASSISTANT PROFESSOR, tenure track position for a mariculturist with molecular and genetic expertise: starting September 1997. Ph.D. required. Salary commensurate with experience. Responsibilities include teaching undergraduate courses in mariculture and developmental biology and developing a research program with external funding and graduate students. Texas A&M University at Galveston is the coastal campus of Texas A&M University. The campus has 85 faculty, 1200 undergraduate and 85 graduate students, and emphasizes undergraduate and graduate level teaching and research in marine biology and oceanography. Please submit curriculum vitae, three letters of recommendation and a statement of teaching and research interests by March 1, 1997 to: **Dr. Randall Davis, Head, Department of Marine Biology, Texas A&M University, P.O. Box 1675, Galveston, TX 77553.** *Texas A&M University is an Equal Opportunity/Affirmative Action Employer.*

Biology: Tenure-track, **ASSISTANT PROFESSOR**. Ph.D. required. Position is available August 16, 1997. Preference given to candidates in introductory biology (both major and non-majors) and anatomy and physiology. Microbiology background desirable. Send curriculum vitae, undergraduate and graduate transcripts, and three letters of reference to: **Biology Search Committee, Office of the Dean, College of Arts and Sciences, University of South Carolina-Spartanburg, 800 University Way, Spartanburg, SC 29303.** Review of applications begins February 3, 1997. *USCS is an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

EMPIRICAL ECOLOGIST THEORETICAL ECOLOGIST Department of Biological Sciences Stanford University

We invite applications for at least one tenure-track position at the **ASSISTANT PROFESSOR** level in the following areas:

EMPIRICAL ECOLOGIST: Research specialization in topics such as species interactions, coevolution, or behavior, preferably including animal systems. Teaching to include undergraduate lecture and field courses in ecology and graduate courses in appointee's area of specialization.

THEORETICAL ECOLOGIST: Research specialization in topics ranging from ecosystem/community dynamics through population and evolutionary ecology to social interactions and evolutionary game theory. Teaching to include undergraduate lecture and computer/math lab courses in ecology, and graduate courses in appointee's area of specialization.

Please submit a curriculum vitae, FAX number, Email address, description of current and future research interests, statement of teaching experience and goals to: **Ecology Search Committee, Department of Biological Sciences, Stanford University, Stanford, CA 94305-5020.** Please also provide the names, addresses, Email, FAX, and telephone numbers of three references, but do not ask them to send letters of recommendation. The application deadline is March 1, 1997. *Applications from women and members of minority groups are strongly encouraged.*

MOLECULAR BIOLOGIST/BIOCHEMIST

We are seeking applications for a 12-month, tenure-track **ASSISTANT PROFESSOR** position. Expectations are: develop a productive, externally-funded molecular biology research program; contribute to the department's teaching and service responsibilities at the medical, undergraduate, and graduate levels; participate in the biochemistry/molecular biology/biophysics and UMD chemistry graduate programs. Exciting opportunities exist for developing independent and interdisciplinary research programs. Competitive salary and start-up funds are available. Qualified applicants must have a Ph.D. (or M.D. with equivalent training) in biochemistry or in molecular biology or a related field that includes training in biochemistry, and postdoctoral experience in molecular biology. Earliest appointment date is July 1, 1997; deadline for receipt of applications is January 31, 1997. Interested individuals should submit a letter of application, curriculum vitae, statement of proposed research directions, and have three letters of recommendation sent to:

**Paul M. Anderson
Chair, Search Committee
Department of Biochemistry and Molecular Biology
University of Minnesota/Duluth
School of Medicine, 10 University Drive
Duluth, MN 55812-2487**

MYCOLOGIST/PLANT PATHOLOGIST

Tenure-track **ASSISTANT PROFESSOR** position in the Biology Department, beginning August 1997. Responsibilities include undergraduate teaching, student advising and development of a research program in mycology and/or plant pathology. Courses may include freshman botany and upper level courses in mycology, plant pathology and microbiology. Ph.D. in mycology/plant pathology or closely related field, a background in microbiology and broad training in botany are required. Demonstrated ability and commitment to undergraduate teaching with research experience, publications and a successful grant history are all desirable. Salary commensurate with qualifications. Send letter of interest, a statement of teaching philosophy, a curriculum vitae, three letters of recommendation, and copies of undergraduate and graduate transcripts to: **Mycologist/Plant Pathologist Search Committee, Department of Biology, University of Wisconsin-Stevens Point, Stevens Point, WI 54481.** Application deadline: February 14, 1997. A detailed position description is available at: <http://www.uwsp.edu/acad/bio/>. *Affirmative Action/Equal Opportunity Employer.*

The Biology Department at Sweet Briar College seeks a 97-98 **SABBATICAL REPLACEMENT** for courses in comparative animal physiology, comparative vertebrate morphology, and introduction to organisms. Candidates offering an ecology course may be hired for up to two years. Deadline: January 31, 1997. See <http://www.sbc.edu/news/news.html>. Contact: **Dr. Robin Davies, Sweet Briar College, Sweet Briar, VA 24595.** *Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

TENURE-TRACK ASSISTANT PROFESSOR Department of Pharmacology, Medical College of Ohio

Applications are invited for an **ASSISTANT PROFESSOR** to join an established department with a long-standing record of extramural support and teaching excellence. Start-up funds and excellent lab space are available. The successful candidate will have demonstrated ability, or exceptional promise, to direct a state-of-the-art, extramurally funded research program addressing important questions at the cellular or molecular level. Applicants should have significant postdoctoral experience and the appropriate background to participate in teaching medical and graduate students. Current research in the department includes molecular studies of ion transport proteins and channels, functions of calpain and other regulated intracellular proteases, mechanisms of action of steroids and insulin, and regulation of neurotransmitter receptor function. Applicants should send a description of current research and future plans, curriculum vitae, and names and addresses of three references to: **H. C. Rosenberg, M.D., Ph.D., Department of Pharmacology, Medical College of Ohio, P.O. Box 10008, Toledo, OH 43699.** Applications will be considered until the position is filled, but those interested are encouraged to apply before March 1, 1997 to ensure full consideration. *Affirmative Action/Equal Opportunity Employer.*

UW-La Crosse: Environmental Microbiologist/Microbial Ecologist, **ASSISTANT PROFESSOR**. The Department of Biology and Microbiology, University of Wisconsin-La Crosse invites applications for an academic year, tenure-track position at the assistant professor level to start August 25, 1997. Applicants must have a strong commitment to undergraduate education. The successful candidate will be expected to teach aquatic microbial ecology, participate in introductory microbiology and/or bacterial physiology courses, and develop a course in his or her area of expertise. The successful candidate will be expected to develop an externally funded research program and direct undergraduate and graduate (M.S.) research. A Ph.D. with an emphasis in microbial ecology and environmental microbiology required; experience in biodegradation of contaminants preferred. Send curriculum vitae, statement of teaching philosophy and research interest, graduate and undergraduate transcripts, and three letters of recommendation to: **Dr. James E. Parry, Chair, Department of Biology and Microbiology, University of Wisconsin-La Crosse, La Crosse, WI 54601.** Deadline: materials must be received by February 10, 1997. *The University of Wisconsin-La Crosse is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.*

MICROBIOLOGIST

Tenure-track **ASSISTANT PROFESSOR**. Ph.D. in an area of microbiology completed by 25 August 1997. Strong background in microbiology and research specialization in the molecular mechanisms of bacterial or fungal pathogenicity are required. Broad background in biology, prior teaching at the college level, and experience working with ethnically diverse groups are desirable. Evidence of strong commitment to teaching required. Duties: teaching undergraduate general microbiology/pathogenic microbiology and general biology courses; developing new courses; advising; supervising undergraduate and graduate research; serving on committees. The successful candidate is expected to engage in scholarly activities. Submit curriculum vitae, all transcripts, and names and telephone numbers of three references to: **Laurel Heffernan, Chair, Biological Sciences, California State University, Sacramento, CA 95819-6077.** Application deadline: 1 March 1997. *Affirmative Action/Equal Employment Opportunity.*

BIOLOGY

The Division of Science, College of Liberal Arts, Florida Atlantic University at Davie, invites applications for a tenure-track **ASSISTANT PROFESSOR** position in molecular genetics, beginning August 1997. Consideration will be given to individuals with teaching experience in genetics and evolution at the college and university level. The successful candidate will have a Ph.D. or equivalent degree in biology, and demonstrated excellence in research. Interested candidates should send application letters, curriculum vitae, and three reference letters to: **James Kumi-Diaka, Search Committee Chair, College of Liberal Arts, Division of Science, Florida Atlantic University-Davie, 2912 College Avenue, Davie, FL 33314.** Email: jdiaka@acc.fau.edu. The deadline for applications is March 5, 1997. *Florida Atlantic University is an Equal Opportunity/Access/Affirmative Action Institution.*



Director

**Center for Environmental Science,
Technology, and Policy**

Minimum Qualifications: Ph.D. in a discipline directly related to critical environmental issues and credentials to hold a senior tenured faculty position in a relevant academic department, preferably within a core environmental area. Academic background will include broad multi-disciplinary expertise, proven ability to compete for extramural funds, and success in large-scale project management. The successful candidate also will have demonstrated experience in building and facilitating multi-disciplinary groups across academic disciplines, both within and outside universities.

Preferred Qualifications: Extensive contacts with governmental agencies at both the federal and state levels. Demonstrated experience with local and national private foundations.

Duties: The Director will develop a detailed set of objectives for the Center and will ensure that the Center's program is achieved. Reporting to the Provost and Senior Vice President for Academic and Student Affairs, the Director will serve as the principal liaison among the University administration, faculty, and other constituencies. Tasks include facilitating the development of environmental curricula; convening multi/interdisciplinary teams to conduct collaborative research on significant environmental issues; working creatively with governmental agencies, private corporation, non-profit organizations, and other constituencies in Northeast Ohio. The Director will be the catalyst for developing public/private/state/federal partnerships and for leveraging resources for support of large-scale regional environmental projects.

Salary Range: Negotiable, based on qualifications and experience.

Starting Date: Negotiable, but preferably July 1, 1997, or earlier.

Application Requirements: Letter of application, curriculum vitae, and names/addresses of three references should be sent to: Dr. Michael Gates, Chair of the Search Committee, Director of the Center for Environmental Science, Technology, and Policy, c/o Office of the Provost and Senior Vice President, Rhodes Tower 1209, Cleveland State University, Cleveland, OH 44115.

Application Deadline: The Search Committee will begin reviewing completed applications on or about February 15, 1997. The position will remain open until filled.

Cleveland State University is an AA/EOE committed to nondiscrimination. M/F/D/V encouraged.

**POSTDOCTORAL FELLOW
ELECTROPHYSIOLOGY**

Mount Sinai School of Medicine has an immediate opportunity to study taste-specific G protein gustducin and its role in taste transduction (*Nature* 381: 796, 1996; *Nature* 376: 80, 1995; *Nature* 376: 85, 1995; and *Nature* 357: 563, 1992).

**Mount
Sinai**

Projects involve whole nerve, single fiber and single cell recording from transgenic mice

expressing seven transmembrane-helix receptors and mutant forms of gustducin. Strong background in electrophysiology and small animal surgery required. Experience with nerve recording, single cell electrophysiology and sensory transduction is preferred.

Please forward curriculum vitae, names and addresses of three references and a statement of research interests to: **Robert F. Margolskee, Department of Physiology and Biophysics, Mount Sinai School of Medicine, One Gustave L. Levy Place, Box 1065, New York, NY 10029-6574.** Equal Opportunity Employer. We foster diversity in the workplace.

The Mount Sinai Medical Center

ASSISTANT PROFESSOR

**Laboratories for Neurobiology of Aging
and Neurobiology**

Mount Sinai School of Medicine has an opportunity available for a tenure track Assistant Professor in the Laboratories for Neurobiology of Aging – a joint scientific program of the Henry L. Schwartz Department of Geriatrics and Adult Development and the Dr. Arthur Fishberg Research Center for Neurobiology.

**Mount
Sinai**

The neuroendocrinologist we seek will possess expertise in primate neuroendocrinology and aging of the reproductive system; a strong background in primate neuroendocrinology; and expertise in the use of molecular, biochemical and physiological techniques in studying mechanisms of neuroendocrine regulation of reproductive function.

Please forward curriculum vitae to: **John H. Morrison, Ph.D., Professor and Co-Director, Arthur M. Fishberg Center for Neurobiology, Mount Sinai School of Medicine, One Gustave L. Levy Place, Box 1065, New York, NY 10029-6574.** Equal Opportunity Employer. We foster diversity in the workplace.

The Mount Sinai Medical Center

**NORTH SHORE UNIVERSITY HOSPITAL
IN MANHASSET**

Postdoctoral Fellow

Opportunity for a candidate to study the role of DNA methylation in ovarian cancer development. Applicants should possess Ph.D. or equivalent degree in Molecular Genetics and/or Molecular Biology.

Research Associate/Lab Technician

To join research team involved in the study of metabolic response to trauma and stress. BS degree preferable; experience in small/large animal survival surgery, in vivo experimental techniques and laboratory instrumentation, including HPLC required. Candidates must be self-motivated, independent and possess strong background in metabolism, physiology and/or biochemistry. Good writing skills desirable; computer proficiency essential.

We offer competitive salaries and professional benefits. For consideration, respond by resume indicating position desired, to:

**Human Resources Department
North Shore University Hospital
300 Community Drive, Manhasset, NY 11030**

We are an Equal Opportunity Employer M/F/D/V

**WE INVITE THE BEST
TO JOIN THE BEST.**



**NORTH SHORE
HEALTH SYSTEM**

POSITIONS OPEN

BOSTON UNIVERSITY ECOSYSTEM ECOLOGIST

The Department of Biology and the Center for Energy and Environmental Studies at Boston University seek an ecosystem ecologist for a position at the **ASSISTANT PROFESSOR** level (tenure-track) starting September 1997. The successful candidate will be expected to develop a strong research program which complements existing faculty strengths in ecology, tropical biology, conservation biology, environmental science, and human dimensions of environmental change. Opportunities exist to collaborate with colleagues in other centers and departments in the areas of climatology, geochemistry, biogeography, remote sensing, archeology, and hydrology. The successful candidate is expected to teach and supervise students at the undergraduate and graduate levels, and to develop a strong, externally-funded research program. A Ph.D. is required and postdoctoral research experience is desirable. Send a curriculum vitae, description of teaching interests, and three letters of recommendation by February 7, 1997 to: **Dr. Richard Primack, Ecosystem Search Committee, Department of Biology, 5 Cummings Street, Boston University, Boston, MA 02215.** Women and minority candidates are encouraged to apply. Boston University is an Affirmative Action/Equal Opportunity Employer.

BIOLOGY FACULTY POSITION

Scripps College expects a tenure-track opening for an **ASSISTANT PROFESSOR** of biology in the Joint Science Department. Ph.D. in biology, expertise in an area of applied biology, and interest in developing a program to mentor undergraduates (especially women) in science expected. Responsibilities will include teaching undergraduate majors and non-majors and supervising undergraduates in research. Maintenance of an active research program expected. The department is sponsored by Claremont McKenna College, Pitzer College, and Scripps College of the Claremont Colleges and includes faculty in biology, chemistry, and physics. Scripps College is a liberal arts women's college in the Claremont consortium. Please send a curriculum vitae, statements of teaching philosophy/interests and research interests, and three letters of recommendation by February 3, 1997 to: **Newton Copp, Chair, Joint Science Department, Keck Science Center, The Claremont Colleges, Claremont, CA 91711.** Scripps College is an Equal Opportunity Employer which invites and encourages applications from minority persons and from women.

COMPUTATIONAL BIOLOGY

The University of Texas Southwestern Medical Center at Dallas ASSISTANT/ASSOCIATE/PROFESSOR

The University of Texas Southwestern Medical Center at Dallas announces the opening of a faculty position in computational biology. Applications are invited for a tenure-track position at the **ASSISTANT PROFESSOR** level, although more senior ranks will be considered. The position will be competitively supported with respect to salary, equipment, infrastructure and technical staffing. Candidates accomplished in hypothesis-driven research using biological databases and analytical methods, are encouraged to apply. Experience in protein modeling and structure inference is desirable. Cover letter, curriculum vitae, and names of three references should be sent by March 1, 1997 to: **Steven L. McKnight, Department of Biochemistry, University of Texas Southwestern Medical Center, 5323 Harry Hines Boulevard, Dallas, TX 75235-9152.** The University of Texas Southwestern Medical Center is an Affirmative Action/Equal Opportunity Employer. Women and minority candidates are encouraged to apply.

ASSISTANT PROFESSOR tenure-track position available August 25, 1997 in exercise physiology. Applicants should have Ph.D. or equivalent and research experience in biological aspects of exercise (postdoctoral experience preferred). Applications (letter of application, curriculum vitae, three published articles, names of three references) to: **Professor Greg Cartee, University of Wisconsin, Department of Kinesiology, 2000 Observatory Drive, Madison, WI 53706.** Telephone: 608-262-7715; FAX: 608-262-1656; Email: cartee@soemadison.wisc.edu. Deadline: March 1, 1997. Note: Unless confidentiality is requested in writing, information regarding applicants and nominees must be released upon request. Finalists cannot be guaranteed confidentiality. Applications are encouraged from women, members of minority groups and persons with disabilities. UW-Madison is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

UNIVERSITY OF NEBRASKA-LINCOLN PROTEIN BIOCHEMIST

Applications are invited for a tenure-track **ASSISTANT PROFESSOR** position in the Department of Biochemistry starting August 1997. Department is particularly interested in applicants conducting fundamental research in enzyme mechanisms or protein structure and function. Successful applicant will be expected to develop a vigorous, externally-funded research program and to teach one course per year. Generous start-up package accompanies this 12-month position within the Institute of Agriculture and Natural Resources. Department is housed in the new, \$32-million, G. W. Beadle Center. Requires Ph.D. and postdoctoral experience. Send curriculum vitae, one-page statement of research interests, representative reprints, and three letters of reference postmarked by March 1, 1997 (or until suitable candidate is found) to: **Dr. Stephen W. Ragsdale, Department of Biochemistry, University of Nebraska-Lincoln, Lincoln, NE 68588-0664.** Telephone: 402-472-2943; FAX: 402-472-7842. UNL is committed to a pluralistic campus community through Affirmative Action and Equal Opportunity, is responsive to the needs of dual career couples, and assures reasonable accommodation under the Americans With Disabilities Act. Contact Dr. Ragsdale for more information.

Ph.D. MICROBIOLOGIST

The New Lead Discovery Department of Cubist Pharmaceuticals, Inc. has an immediate opening for an experienced Ph.D. **MICROBIOLOGIST**, preferably with industrial experience. Cubist is dedicated to the development and commercialization of fundamentally new approaches to anti-infective drugs. As part of an interdisciplinary team, this scientist will have technical responsibilities for characterizing the microbiology properties of novel antimicrobials from research to pre-clinical development stages. Responsibilities include profiling of lead candidates, biochemical approaches to intracellular mechanism of action studies, support for testing in animal models and preparation of pre-clinical development packages. In-depth knowledge of susceptibility testing, clinical microbiology and data management is essential. In addition, the individual will be expected to participate in the identification and validation of novel drug discovery targets. Candidates should be able to function in a small company environment with a culture of independence, creativity and excellent science. Cubist offers competitive compensation, comprehensive group insurance and benefits, including 401(k), tuition reimbursement, free parking and transportation reimbursement. For consideration please mail, fax, or Email a cover letter and curriculum vitae to: **J. Simone, Human Resources Manager, Cubist Pharmaceuticals, Inc., 24 Emily Street, Cambridge, MA 02139.** FAX: 617-576-0232; Email: jsimone@cubist.com. Applications in response to this advertisement must be marked job code PWMCRB. Cubist is an Equal Opportunity Employer.

RESEARCH IMMUNOLOGIST/ MOLECULAR BIOLOGIST

The Western Human Nutrition Research Center, of the Agricultural Research Service, USDA, seeks a permanent full-time **RESEARCH SCIENTIST** in the area of nutritional immunology. To establish an independent research program of the mechanisms underlying nutritional regulation of immune response. The candidate must be a U.S. citizen and have an M.D. or Ph.D. in immunology, molecular biology, nutrition, or a related field, and be an established investigator. Salary is commensurate with experience in the range of \$45,687 to \$98,171 plus benefits. Contact: **Mr. Leo Rachal, Telephone: 415-556-5038** for an official vacancy announcement number ARS-D7W-006. Applicants should include a description of research interests, curriculum vitae, and names of three academic references. For information contact: **Dr. Darshan Kelley, Chair Search Committee, USDA, ARS, WHNRC, P.O. Box 29997, Presidio of San Francisco, CA 94129.** Telephone: 415-556-4381. All applications must be received by March 31, 1997. USDA is an Equal Opportunity Employer.

POLYMER CHEMIST

DuPont Lycra® seeks a Polymer Chemist in Waynesboro, Virginia. Requirements: Ph.D. in organic synthesis/polymer chemistry. Strong track record of time performance/understanding of kinetic mechanisms and modern synthetic techniques. Send your résumé to: **Attention: PSS-0154, DuPont, 1007 Market Street, N12419, Wilmington, DE 19898.** FAX: 1-800-631-2206, Attention: PSS-0154. An Equal Opportunity Employer.

POSITIONS OPEN

WILDLIFE ECOLOGIST, Cooperative Research Units. The Biological Resources Division of the U.S. Geological Survey (USGS) invites expression of interest in a position for a research wildlife biologist (GS-486) to serve as Assistant Unit Leader for Wildlife at the Ohio Cooperative Fish and Wildlife Research Unit. The successful candidate will serve at The Ohio State University, Columbus, Ohio, where the Unit is located, and will receive a courtesy faculty appointment in the Department of Zoology of the College of Biological Sciences. Assistant Leader duties include establishing a strong research program, teaching at the graduate level, and providing technical assistance to resource managers on wildlife resource issues. Requirements for the position include a Ph.D. in terrestrial ecology, wildlife management, wildlife conservation biology, or closely related fields; a record of research productivity in ecology, population dynamics, population genetics, or population modeling; and an ability and commitment to teach. We encourage interested parties to contact the Chair of the Search Committee (**Dr. Patricia G. Parker, Department of Zoology, Telephone: 614-292-0378; FAX: 614-292-2030; Email: parker.3@osu.edu**); or the Unit Leader (**Dr. Deanna J. Stouder, Ohio Coop Unit, Telephone: 614-292-6112; FAX: 614-469-7395; Email: stouder.1@osu.edu**), for general information about the Cooperative Unit, The Ohio State University, the Department of Zoology, or the application procedure. When the position opens, send a completed and current Optional Form 612 (or equivalent information in résumé form), accompanied by a Supervisor Appraisal Form, a separate statement addressing each quality ranking factor, and a copy of college transcripts to: **U.S. Geological Survey Personnel Office, 12201 Sunrise Valley Drive, Reston, VA 20192.** Telephone: 703-648-7413. The USGS and The Ohio State University are Equal Opportunity Employers.

Linguagen Corp. is a young biotechnology based nutraceutical company focusing on the discovery and development of novel taste modifying agents through applied research in the molecular mechanisms of taste transduction. We have a strong proprietary position and several co-development partnerships. Linguagen is currently hiring motivated postdoctoral and research **SCIENTISTS** for the following four positions.

ASSAY DEVELOPMENT: to develop, adapt and implement high throughput assays to screen libraries of compounds for novel taste modifiers. Requires a Ph.D. and relevant postdoctoral experience with a variety of *in vitro* biochemical assays.

SIGNAL TRANSDUCTION: to apply biochemical and pharmacological approaches to the underlying mechanisms of taste transduction. Requires a Ph.D. and postdoctoral experience in biochemistry, protein chemistry and pharmacology relevant to G protein coupled receptors.

MONOCLONAL DEVELOPMENT: to generate and evaluate panels of monoclonal antibodies against sweeteners and taste modifying agents. Requires a Ph.D. and relevant postdoctoral experience in immunology, ELISA and fluorescence polarization based immunoassays.

MOLECULAR BIOLOGY: to molecularly clone and express components of the taste signal transduction cascades. Requires a Ph.D. and relevant postdoctoral experience in cloning and expression of recombinant proteins. Experience with G proteins and G protein coupled receptors is desirable.

Qualified applicants should send their curriculum vitae along with names of three references to: **Mr. Richard Lufkin, Executive Vice President, Linguagen Corp., 100 Delaware Avenue, Clifton, NJ 07015.** Email: lufkin@email.njin.net. Principals only.

ASSISTANT PROFESSOR IN BIOPHYSICS OR MEDICAL PHYSICS

The Physics Department of Southern Illinois University at Carbondale invites applications for a tenure-track **ASSISTANT PROFESSOR** position starting August 16, 1997. Applicants must hold a Ph.D. degree in physics or equivalent degree with demonstrated expertise in experimental biophysics or medical physics. Postdoctoral research experience is required. Candidates are sought who give evidence of excellence in scholarship and teaching at both undergraduate and graduate levels. The successful applicant is expected to conduct a vigorous research program and attract external funding. Applicants should send a letter of application, a curriculum vitae, and arrange at least three reference letters to: **Search Committee, Department of Physics, SIUC, Carbondale, IL 62901-4401** before March 5, 1997. SIUC is an Equal Opportunity/Affirmative Action Employer.

THE NATIONAL INSTITUTES OF HEALTH (NIH)
NATIONAL CENTER FOR HUMAN GENOME RESEARCH

THE NATIONAL CENTER FOR HUMAN GENOME RESEARCH (NCHGR) SEEKS TO RECRUIT A SCIENTIST INTERESTED IN RESEARCH GRANT ADMINISTRATION.

The Human Genome Project is well under way: it has successfully met several of its goals and is now scaling up DNA sequencing to determine the complete sequence of human DNA. NCHGR is also beginning to explore the development of innovative technologies for the study of sequence variation and the interpretation of genomic DNA sequence. The successful candidate will have the opportunity to be involved in planning future directions and administering a portfolio of grants in the area of large-scale genomic sequencing and technological innovation for the development of new genomic resources. NCHGR is looking for a creative, flexible individual interested in working in a multi-disciplinary environment.

Candidates should have a Ph.D. degree and experience in an area relevant to genomic science, including biological sciences, information science, chemistry, mathematics, physics, or engineering; have at least three years of post-graduate experience in leading an independent research project; and be interested in applying these skills to the present and future challenges offered by human genome research. The salary range is from \$54,629 to \$83,922 depending on experience and current salary.

NIH is an Equal Opportunity Employer and applications by women and minorities are strongly encouraged. Please submit a curriculum vitae and three letters of recommendation to:

**Shelley Woods, Personnel Management Specialist,
National Center for Human Genome Research,
Building 31, Room 4B25, 9000 Rockville Pike,
Bethesda, Maryland 20892; Fax: 301-402-0837; E-mail:
ShelleyW@OD.NCHGR.NIH.GOV; Closing Date: 01/27/97**

**NATIONAL INSTITUTES OF HEALTH
NATIONAL INSTITUTE ON DEAFNESS AND
OTHER COMMUNICATION DISORDERS**

The Laboratory of Molecular Genetics, NIDCD, is recruiting scientists to study the molecular genetics of hereditary hearing impairment and to participate in collaborative projects. Two post-doctoral positions in the Laboratory of Molecular Genetics, NIDCD, are available.

**Postdoctoral Fellow: Molecular Biology of
Cochlear Development**

The postdoctoral fellow will participate in projects to identify and investigate the roles of regulatory genes and their targets in cochlear development. Candidates should have earned a PhD and/or MD, and have experience in molecular biology and genetics. Experience in tissue culture, protein purification and/or neurosciences will be helpful but not required.

**Postdoctoral Fellow: Genetics of Hereditary
Hearing Impairment**

The postdoctoral fellow will participate in projects to map and clone mutated genes that cause hereditary hearing impairment. Candidates should have earned a PhD and/or MD, and have experience in molecular biology and genetics. Experience in genetic mapping and positional cloning is preferred.

Please send a curriculum vitae, including a bibliography, and the names and addresses of three references by February 15, 1997 to:

**Dr. Thomas B. Friedman, Chief, Laboratory of
Molecular Genetics, National Institute on Deafness
and Other Communication Disorders, National
Institutes of Health, 5 Research Court, Rockville,
Maryland 20850; tfriedman@pop.nidcd.nih.gov**

Further information may be obtained by contacting Ms. Clements on (301) 402-0508 or TDD (301) 402-1134.

NIH is an Equal Opportunity Employer

Aurora

Biosciences Corporation

Aurora Biosciences Corporation is a leading post-genomics company in the application of fluorescence and miniaturization technology for functional analysis and ultra-high-throughput-screening of genomics-derived targets. We are currently looking to recruit talented personnel for the following positions:

1) Associate Director, Molecular Biology

The candidate should have a relevant Ph.D., 5+ years of postdoctoral research and supervisory experience in a pharmaceutical or biotechnology company plus a substantial list of publications. Should have broad-based experience of mammalian molecular biology including cloning, expression, engineering of cell lines and technologies used for genomic analysis. Responsibilities will include management of a group of scientists including Ph.D.'s and research associates.

2) Senior Scientist, Cell Biology

The candidate should have a Ph.D. with at least 3 years post-doctoral experience, preferably in an industrial research environment. Should have expertise in cloning, expression and analysis of ion channels and/or G-protein coupled receptors. Must have a proven ability to work independently and a record of peer-reviewed publications.

3) Senior Scientist, Screening

Qualified candidates must have a Ph.D. plus 3-5 years post-doctoral experience in an industrial environment. The ideal person will be a biochemist or molecular pharmacologist with experience in screening automation and operating high throughput cellular and biochemical assays.

3) Research Associate, Screening

An experienced and highly motivated BS or MS biologist will have responsibility for assay development, screening and detailed characterization of pharmacologically active compounds. Experience in programming of automated screening workstations is desirable.

4) Research Associate, Chemistry

Candidates for this position must have a B.S./M.S. in organic chemistry plus 2+ years of industrial experience. Should have expertise in performing a variety of organic synthesis reactions, scale-up at the mg-gram scale, purification by HPLC and techniques for molecular characterization.

Aurora offers competitive salary and benefits. EOE.
Send or fax resume/curriculum vitae to:

**Human Resources Manager (Referenced Position),
Aurora Biosciences Corporation,
11149 North Torrey Pines Road,
La Jolla, CA 92037.
Fax: 619-452-5723.**

Faculty - Position Open

Protein Crystallographer Tenure Track University of Delaware

A faculty position as Assistant Professor is available in Protein Crystallography in the Department of Chemistry and Biochemistry. Exceptionally well qualified candidates could be considered at a higher rank. Applicants should have a Ph.D. and postdoctoral experience. We seek an outstanding candidate who will establish a nationally competitive, vigorous and independent research program in a significant area of structural biology, and will participate in undergraduate/graduate teaching. Opportunities for research collaboration are also present in this intellectually stimulating environment. Excellent new facilities and generous start-up funds will be provided. Review of applications will begin as they are received and will continue until February 18, 1997. Candidates should submit a curriculum vitae, statement of current and future research plans and have three letters of reference sent to: **Professor Roberta F. Colman, Protein Crystallography Search Committee, Department of Chemistry and Biochemistry, University of Delaware, Newark, DE 19716.**

The UNIVERSITY OF DELAWARE is an Equal Opportunity Employer which encourages applications from Minority Group Members and Women.



UNIVERSITY OF Massachusetts A M H E R S T

DARWIN FELLOW

UMass Amherst announces a post-doctoral lectureship in organismic and evolutionary biology. More than 70 faculty members in 10 departments are committed to the study of organismic and evolutionary biology, offering unique training and research opportunities for recent Ph.D.'s. Our 2-year lecture/research position allows independent research with a faculty member and experience developing and teaching a one semester undergraduate course. Position subject to availability of funds. 1st year salary: \$25,000. 2nd year salary: \$30,000. To apply, send: CV; 3 letters of reference; statements of research and teaching interests; and letter of support from your proposed UMass Amherst faculty sponsor. E-mail darwin@bio.umass.edu or call 413-545-0928 for a list of faculty research interests and more information.

Send materials to:

Darwin Fellowship

Morrill Science Center

**University of Massachusetts Amherst
Amherst, MA 01003-5810**

Application review begins 3/1/97. Position remains open until successful candidate is selected. Start date: 9/1/97. *The University of Massachusetts Amherst is an Affirmative Action/Equal Opportunity Employer.*

PROFESSOR AND CHAIR

Department of Pharmacology and Toxicology, Dartmouth Medical School

Applications are invited from researchers in the area of cancer biology for the position of Professor and Chair of the Department of Pharmacology and Toxicology at Dartmouth Medical School. The Department participates in the education of M.D., Ph.D., and M.D./Ph.D. students. Members of the faculty conduct research on a wide range of interdisciplinary topics including cancer biology, with a strong emphasis on cellular and molecular pharmacology (information available at <http://www.dartmouth.edu/dms/pharmtox/>). The faculty maintain research and academic ties to other departments at Dartmouth Medical School, the Norris Cotton Cancer Center, Dartmouth College, and the Veterans Administration Medical Center. Applicants should have an active research program and a strong record of scientific and scholarly achievement commensurate with that expected of the holder of an endowed chair which will accompany this position. They should have a strong commitment to excellence in education, and have the leadership qualities necessary for developing the faculty and promoting the research and academic programs of the Department. Letters of application, accompanied by a curriculum vitae, names and addresses of three references, and a summary of current research activities and support, should be sent to Pharmacology-Toxicology Search Committee, Office of the Dean, Dartmouth Medical School, Hanover, NH 03756. *Dartmouth College is an Affirmative Action/Equal Opportunity employer and encourages applications from women and members of minority groups.*



PLANT ECOLOGY

Department of Plant Biology

The Ohio State University

We seek a Ph.D. plant ecologist for a one year sabbatical replacement position at the assistant professor or lecturer level starting September 1, 1997. Candidates with teaching experience over and above laboratory assisting will be given preference. The successful candidate will teach one course per quarter, including experimental field ecology in the autumn, general ecology in the winter, and a basic plant biology core course in the spring. Research facilities and equipment will be available, and interaction with ecology and evolutionary biology graduate students and faculty is expected. Send CV, reprints, statement of teaching philosophy, and the names and addresses of three references to **Plant Ecology Search Committee, Department of Plant Biology, The Ohio State University, 1735 Neil Avenue, Columbus, OH 43210 USA.** Review of applications will begin on January 20, and will continue until a suitable candidate is identified. Qualified women, minorities, Vietnam-era veterans, and persons with disabilities are encouraged to apply.

PRESIDENT/CEO

The Harbor UCLA Research and Education Institute (REI), a private, non-profit research organization located at Harbor-UCLA Medical Center, and affiliated with the UCLA School of Medicine and the County of Los Angeles, is seeking a President/CEO. Potential candidates should have extensive experience and background in research administration and sound business skills. An advanced degree and personal research experience are highly desirable. The President will be responsible for the management of financial, human and physical resources of the Institute, and for fund raising, development of new programs and research directions, and for leading the Institute into the 21st century. Currently the institute manages over 600 projects of various funding sources with total yearly expenditures exceeding \$50 million. Principal Investigators number more than 200 and are faculty of the UCLA School of Medicine.

Salary and benefits commensurate with qualifications. Please send curriculum vitae, a one-page description of accomplishments and personal goals, and the names of four referees by 28 February 1997 to: **Dr. Rosemary Leake; Chair, Search Committee; Department of Pediatrics, Box 17; Harbor-UCLA Medical Center; 1000 West Carson Street; Torrance, CA 90509. EOE/AA**

Eric Pfeiffer Endowed Chair in Alzheimer's Disease Research

The University of South Florida is seeking a highly qualified basic or clinical scientist to fill the recently vacated Eric Pfeiffer Endowed Chair in Alzheimer's Disease Research. This is a tenure earning position within the College of Medicine which is expected to be filled at the Full or Associate Professor level. The chairholder will direct the Alzheimer's disease research program at the Suncoast Gerontology Center in the USF College of Medicine. Applicants should have well-established expertise in any of the disciplines relevant to Alzheimer's disease research: neurobiology, neurochemistry, immunology, pharmacology, neuropathology, psychiatry, or neurology. Applicants should be fully conversant with current research on Alzheimer's disease. They should also have their own approach to developing strategies designed to intervene in the chain of events leading to the death of brain cells in Alzheimer's disease, with the goal of developing methods of treatment and prevention. Applicants should have an established track record of securing major grant support, as principal investigators, for research on Alzheimer's disease or related subjects. Salary is competitive and negotiable. Interested applicants should submit a letter of intent, outlining their approach to research on treatment and intervention strategies, along with a full curriculum vitae, listing research accomplishments and publications. Applications will close on March 31, 1997. Applications should be addressed to: **The Chair of the Search Committee, Suncoast Gerontology Center, University of South Florida, College of Medicine, MDC Box 50, 12901 Bruce B. Downs Boulevard MDC 50, Tampa, Florida 33612.** *According to Florida law, applications and meetings regarding the position are open to the public. USF is an Equal Opportunity employer.*

DEAN OF THE GRADUATE SCHOOL

Nominations and applications are invited for the positions of Dean of the Graduate School and Associate Provost for Research at the University of Wisconsin-Milwaukee (UWM). The individual selected for this position will serve as the principal campus official in matters of research policy and administration, and chief administrative officer of the Graduate School. The position reports to both the Chancellor and Provost regarding research and to the Vice Chancellor/Provost concerning graduate education. The position will be available at the beginning of the 1997-98 academic year. The salary range is competitive and commensurate with the individual's qualifications.

The University of Wisconsin-Milwaukee is a major public urban Research II institution; one of two doctoral degree granting campuses of the University of Wisconsin System. The campus has approximately 17,300 undergraduates and over 4,450 graduate students enrolled in 47 Master's and 17 Ph.D. programs, with 760 graduate faculty. The Graduate School is responsible for research support and grants administration, graduate student service, international programs, intellectual property and technology transfer, and is the administrative home for the campus Centers of Research Excellence, including the Laboratory for Surface Studies, the Center for Urban Initiatives and Research, the Center for Twentieth Century Studies and the Center for Great Lakes Studies. For additional information about UWM and the Graduate School, connect with: www.uwm.edu on the World Wide Web.

UWM is seeking individuals for this position who will: take an active leadership role in encouraging research, scholarship and creative activity consistent with campus Strategic Plan; work aggressively to increase extramural funding; creatively promote collaborative, interdisciplinary research, and research partnerships with the public and private sectors; support and strengthen graduate research and education, and enhance the integration of research in the undergraduate curriculum.

Applicants and nominees must possess an earned doctorate degree, and excellent record of scholarly achievement, have the credentials to be appointed as a tenured faculty member in an academic department, strong communication skills, proven leadership ability in an academic setting, planning, budgetary and personnel management skill, extensive experience in grantsmanship and extramural fund raising, and a willingness to work within a system of faculty governance.

Applications must include a letter from the candidate attesting to their strengths in the above-referenced areas, curriculum vitae, and the names, addresses, and telephone numbers of five references who may be contacted. Applications must be postmarked by February 28, 1997. All application materials should be submitted to:

**Professor Arthur S. Brooks, Chair
Graduate Dean Search Committee
c/o Biological Sciences
University of Wisconsin - Milwaukee
P.O. Box 413
Milwaukee, WI 53201-0413
Phone: (414) 229-4831
Fax: (414) 229-3926
Internet Address:
graddean@csd.uwm.edu**

UWM is an affirmative action/equal opportunity employer. The names of nominees and applicants who have not requested in writing that their identities be withheld, as well as the names of all finalists for the position, will be released upon request.

Associate/Staff Scientist

Signal Transduction Anchoring

Located in the Pacific Northwest, **ICOS Corporation** is discovering and developing new pharmaceuticals by seeking points of intervention in the inflammatory process that may lead to more specific and efficacious drugs. The company's research targets both acute & chronic conditions such as ARDS, cardiovascular disease, hemorrhagic shock, ischemic stroke, male erectile disorder and multiple sclerosis, and our continued growth has created a great opportunity for a hands-on Associate Staff Scientist or Staff Scientist to join our Signal Transduction Anchoring Program.

This individual will design and execute experiments to elucidate the roles of enzyme anchoring in a variety of cellular processes. In addition, he/she will be involved in assay development and evaluation of high throughput screens that will help discover regulators of the anchoring process. A Ph.D. in Cell Biology, Pharmacology, or related field is preferred. The successful candidate will possess the ability to develop and lead projects examining the role of signal transduction enzymes in cellular processes, and will be skilled in protein purification, the analysis of protein-protein interaction and antibody generation and characterization, as well as high throughput assay development. A thorough understanding of signal transduction, excellent communication skills and enthusiasm for highly collaborative work are essential for this position.

We offer attractive compensation & benefits, including stock options. Qualified candidates are encouraged to send their resumes to the below address. All of our job postings may be referenced at www.bio.com/companies/icos.html



**ICOS Corporation
Human Resources
Attn: Job# LA1296-SCI
22021 20th Avenue SE
Bothell, WA 98021**

EOE

Director, Joint Institute for Food Safety and Applied Nutrition

The Joint Institute of Food Safety and Applied Nutrition (JIFSAN) is a cooperative venture of the Federal Food and Drug Administration (FDA) and the University of Maryland at College Park (UMCP). JIFSAN brings together FDA's expertise and responsibilities in policy, regulation, and research with the broad spectrum of research and educational programs of the University. This intellectual partnership will provide the scientific basis to ensure a safe and wholesome food supply as well as the infrastructure for national food safety programs and international food standards.

The Director of JIFSAN will work with UMCP and FDA to develop collaborative research and education programs, as well as joint research facilities. These programs will include substantial participation by other organizations, both public and private. The responsibility of the Director will be to build an internationally recognized center of excellence in food safety and applied nutrition, including development and implementation of a strategic plan for programs, oversight, and extramural resource acquisition. Among the major efforts of JIFSAN will be the development of a cross-cutting program in risk analysis associated with food safety issues, developing strategies to reduce the incidence of foodborne diseases, and furthering the nutritional quality of food supply. The Director will be the primary representative of JIFSAN and will report to an Executive Committee from FDA and UMCP. The duties will include an active role in the recruitment of research staff and in expanding cooperative research and education programs.

The Director will be a tenured professor in an academic department at UMCP, with appropriate responsibilities in research and teaching as well as administration. The preferred academic disciplines of the Director are chemistry, biochemistry, nutrition, microbiology, toxicology, veterinary medicine, or food science.

Candidates must have an earned doctorate and have internationally recognized research and professional accomplishments. Experience in the development and administration of major multidisciplinary research and/or educational programs is highly desirable. Candidates should send a letter of application accompanied by a curriculum vitae to the address below. For best consideration, completed applications should be received by February 15, 1997. The earliest anticipated starting date for this position is July 1, 1997. Applications should be sent to **JIFSAN Director Search Committee, Room 1118 Symons Hall, University of Maryland, College Park, MD 20742-5815**. Additional information is available on the WWW at WWW.life.umd.edu/positions

The University of Maryland is an Affirmative Action/Equal Opportunity Employer. Women and minority candidates are encouraged to apply.

POSITIONS OPEN

Environmental studies, **ASSISTANT PROFESSOR**, fall 1997. Tenure-track faculty member to teach some combination of air and water quality; pollution regulation and environmental law; remediation and impact assessment. Field research experience required; GIS expertise helpful. Requires strong commitment to undergraduate teaching and development of research involving students. Ph.D. required. Stockton has about 5000 students with 300 majors and 10 faculty in this interdisciplinary program. Current salary range of \$34,412 to \$39,575. Salary may be higher depending on qualifications, experience, and increases in the appropriately established compensation plan. Screening begins February 23, 1997. Send letter of application, résumé, three letters of recommendation, and evidence of completion of Ph.D. to: **Barbara Byrne, Dean of Natural Sciences and Mathematics, Richard Stockton College of New Jersey, AA29, Pomona, NJ 08240.** Stockton is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply. R702903

Ph.D. BIOCHEMIST

Cubist Pharmaceuticals, Inc. seeks a Ph.D. **BIOCHEMIST** with postdoctoral or industrial experience. Cubist is dedicated to the development and commercialization of fundamentally new approaches to anti-infective drugs. Thorough knowledge of biochemistry and enzymology, familiarity with molecular biology practices and a strong interest in the discovery of novel antimicrobial agents is expected. Responsibilities include identifying and validating novel antibacterial targets and configuring high throughput screens. Candidates should be able to function in a small company environment with a culture of independence, creativity and excellent science. Cubist offers competitive compensation, comprehensive group insurance and benefits, including 401(k), tuition reimbursement, free parking and transportation reimbursement. For consideration please mail, fax or Email a cover letter and curriculum vitae to: **J. Simone, Human Resources Manager, Cubist Pharmaceuticals, Inc., 24 Emily Street, Cambridge, MA 02139. FAX: 617-576-0232; Email: jsimone@cubist.com.** Applications in response to this advertisement must be marked job code PWBCHM. Cubist is an Equal Opportunity Employer.

TEACHING POSITION—environmental studies. The Human and Natural Ecology Program, Emory University, invites applications for a teaching position at the **LECTURER** rank for a non-tenure-track, one-year appointment beginning in September 1997, with a possibility of renewal for one or more additional years. A Ph.D. degree is necessary. The successful applicant should have training in environmental studies, with an interdisciplinary approach to environmental problems, ideally with a public policy or a social science focus. Teaching experience and teaching excellence is highly desirable, as is innovative interdisciplinary approaches and expertise in classroom discussion and computer use for teaching. Responsibilities include teaching introductory courses in environmental studies, advising students, and some administrative tasks. Send curriculum vitae, a letter addressing how you meet our criteria, a statement of your teaching philosophy (separate from letter) and three letters of recommendation to: **Dr. Paula J. S. Martin, Interim Director, Human and Natural Ecology Program, Emory University, Atlanta, GA 30322.** Closing date: February 15, 1997. Emory is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

Applications are invited for postdoctoral candidates interested in: 1) structure/function and kinetic studies of recombinant DNA replication complexes; 2) signal transduction and structural studies involving tissue factor, a transmembrane protein that has a role in blood coagulation and tumor metastasis.

Please send résumé and three references to: **Dr. William Konigsberg, Yale University, Department of Molecular Biophysics and Biochemistry, 333 Cedar Street, C-113 SHM, New Haven, CT 06520.**

POSTDOCTORAL FELLOW/RESEARCH ASSOCIATE—University of Colorado Health Sciences Center (UCHSC). Positions are available to study the induction of differentiation by GM-CSF, examine the control of c-jun activity by the SAPK pathway, and investigate the modulation of the cell cycle by WAF-1. Experience in molecular and/or cell biology is essential. Send curriculum vitae and names of three references to: **Andrew S. Kraft, M.D., Chief, Medical Oncology, UCHSC, 4200 East 9th Avenue, Denver, CO 80262. FAX: 303-315-8825.** UCHSC is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

ASSOCIATE PROFESSOR of Radiology—The Massachusetts General Hospital (MGH) NMR Center is currently seeking a scientist with extensive experience and publication record in both systems-level neuroscience and functional magnetic resonance imaging. The ideal candidate should have experience in neuroanatomy, neurophysiology, and functional imaging in New and Old World monkeys, especially in visual cortex. Complementary MRI experience should include echo-planar imaging techniques, preferably also in visual cortex. Especially helpful is experience in topographical analysis, using cortical unfolding and flattening techniques. Please send curriculum vitae, a statement of research interests, and the names and addresses of three references to: **Thomas J. Brady, M.D., MGH-NMR Center, Department of Radiology, CNY2301, 13th Street, Charlestown, MA 02129.** The Massachusetts General Hospital and Harvard Medical School are Affirmative Action/Equal Opportunity Employers.

POSTDOCTORAL RESEARCH FELLOWSHIPS (2) MOLECULAR BIOLOGIST

The research will focus on the molecular biology of Alzheimer's disease and other disorders related to aging. Work will involve genetic studies of Alzheimer's disease, gene cloning, gene expression, functional studies, and transgenic mouse technology. Applicants should have a strong background in molecular biology, biochemistry, or molecular genetics. Interested individuals should send curriculum vitae and three letters of recommendation to: **Gerard D. Schellenberg, Geriatric Research Education and Clinical Center, Seattle Veterans Affairs Medical Center, 1660 South Columbian Way, Seattle, WA 98108.** Affirmative Action/Equal Opportunity Employer.

A **POSTDOCTORAL POSITION** is available immediately to investigate oxidative stress in relation to the aging process as part of a program project, "Dietary Restriction and Aging in Rhesus Monkeys," funded by the National Institute on Aging. We seek an individual with a Ph.D. in biochemistry (or a related field) who is trained in protein purification and/or enzymology. The position is available for at least two years. Please send a letter of inquiry, recent reprints, curriculum vitae, and names and telephone numbers of three references to: **Dr. Richard Weindruch, Department of Medicine, University of Wisconsin-Madison, Veterans Administration Hospital (GRECC 11G), 2500 Overlook Terrace, Madison, WI 53705.** Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL RESEARCH FELLOW

Postdoctoral fellowship available to study the antisense oligodeoxynucleotide inhibition of the growth of prostate cancer cells both in tissue culture and *in vivo*. Position requires knowledge of molecular biology, specifically northern, western blotting, RT-PCR. Familiarity with animal handling techniques a plus. Please submit curriculum vitae plus names of two references to: **C. A. Stein, Columbia University, 630 West 168th Street, Black Building, Room 2007, New York, NY 10032. Telephone: 212-305-3606; FAX: 212-305-7348; Email: stein@cuccfa.ccc.columbia.edu.** Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIP available immediately with the NASA Specialized Center of Research and Training (NSCORT) in gravitational biology. Requires expertise in calcium ratio imaging and/or electrophysiology in either plant or animal systems. The investigator will study calcium (microinjection, confocal and video microscopy) and/or electrical responses (vibrating probe, *in vivo* microelectrode recording and/or patch clamping) of gravistimulated normal and transgenic plants. Send curriculum vitae and names of three references to: **Nina Strömberg Allen, Department of Botany, North Carolina State University, Raleigh, NC 27695-7612. FAX: 919-515-3436; Email: nina.allen@ncsu.edu.** NCSU is an Equal Opportunity Employer.

POSTDOCTORAL POSITION available immediately to study lipid metabolism in healthy and obese individuals. Candidates should have experience in lipid analyses. Experience with isotopic tracer techniques is desirable. The successful applicant will join a large group of researchers in the field of *in vivo* metabolic regulation. Minimum requirements: M.D. or Ph.D. in biological sciences. Please mail or fax your curriculum vitae, names of three references, and a brief description of your research experience to: **Dr. Robert R. Wolfe, University of Texas Medical Branch, Shriners Burns Institute, 815 Market Street, Galveston, TX 77550. FAX: 409-770-6825.**

POSITIONS OPEN

Ph.D.

The University of Medicine and Dentistry of New Jersey-Robert Wood Johnson Medical School's Division of Thoracic Surgery seeks a Ph.D.; minimum two years postdoctorate; particular interest in cardiology or cardiac surgery; experience in molecular biology highly desirable; possible tenure-track.

Please send curriculum vitae to: **James W. Mackenzie, M.D., Division of Thoracic Surgery, UMDNJ-Robert Wood Johnson Medical School, One Robert Wood Johnson Place, New Brunswick, NJ 08903-0019 or FAX: 908-235-7013.** UMDNJ is an Affirmative Action/Equal Opportunity Employer, Minorities/Females/Disabled/Veterans, and a member of the University Health System of New Jersey.

POSTDOCTORAL POSITIONS

Positions are available to study the signal transduction mechanisms of the growth inhibitory effect of nitric oxide in vascular smooth muscle cells. Preference will be given to candidates that have a recent Ph.D., or are expected to receive one soon in one of the life sciences, and experience in the techniques of modern biochemistry, including molecular biology. Send curriculum vitae and the names of three references to: **Dr. Aviv Hassid, Department of Physiology and Biophysics, University of Tennessee, 894 Union Avenue, Memphis, TN 38163. Email: ahassid@physiol.utm.edu; FAX: 901-448-7126.**

An Equal Opportunity/Affirmative Action/Titles VI & IX/Section 504/ADA/ADEA Employer.

POSTDOCTORAL POSITION available for studies of B cell differentiation *in vivo* and somatic mutagenesis of antibody genes at the single cell level. Candidates should have a strong background in molecular immunology. Studies will involve high-resolution cell sorting, single-cell/molecule PCR, transgenic construction, FISH analyses and RNA processing analysis. Send curriculum vitae to: **Dr. Lawrence J. Wysocki, Division of Basic Sciences K902, National Jewish Center for Immunology, 1400 Jackson Street, Denver, CO 80206; FAX: 303-398-1385; Email: wysockil@njc.org.** Equal Opportunity/Affirmative Action Institution.

POSTDOCTORAL POSITION is available in the field of chemical ecology of insects. The applicant is expected to study the interactions between agricultural plants, herbivorous insects, and parasitoids, mediated by plant derived volatiles. Experience with behavioural bioassays and GC analysis is required. The position is available for one year, starting in the first third of 1997. Send curriculum vitae and names and telephone numbers of three references to: **Professor Dr. Silvia Dom, Institute of Plant Sciences, Applied Entomology, ETH, Clausiusstr. 25, CH-8092 Zürich. FAX: 41-1-632-11-71.**

POSTDOCTORAL POSITION is available in NIH-funded basic platelet and vascular cell biology laboratory at Baylor College of Medicine. General areas of research include: platelet and vascular cell signal transduction; regulation of vascular cell gene expression; response to vascular injury (both *in vitro* and animal models); effects of hemodynamic forces (shear stress, strain) on platelets and vascular cells. Starting time flexible. Send curriculum vitae with names of three references to: **Dr. Andrew I. Schaffer, Medical Service (111), Houston VA Medical Center, 2002 Holcombe Boulevard, Houston, TX 77030.** Baylor College of Medicine is an Equal Opportunity/Affirmative Action/Equal Access Employer.

A **POSTDOCTORAL POSITION** is available immediately to study the mechanisms of enzymes involved in eukaryotic DNA replication. Studies focus on the mechanism by which DNA polymerase alpha-primease initiates DNA replication and its interactions with accessory proteins. Candidates should have a Ph.D. or equivalent in biochemistry or molecular biology. Send curriculum vitae and names of three references to: **Dr. Robert Kuchta, Department of Chemistry and Biochemistry, University of Colorado, Boulder, CO 80309-0215. Email: kuchta@spot.colorado.edu.** The University of Colorado is an Equal Opportunity Employer.

POSTDOCTORAL POSITION available to investigate the molecular basis of mast cell-bacteria interactions. Experience in cell biology, molecular biology, signal transduction, protein purification, protein-protein interactions, or protein phosphorylation desirable. Send curriculum vitae and names of three references to: **Dr. Soman N. Abraham, Department of Pathology, Barnes-Jewish Hospital-north (Washington University, School of Medicine), 216 South Kingshighway, St. Louis, MO 63110. Email: Abraham@pathbox.wustl.edu.** An Equal Opportunity Employer.

GLOBAL CAREER OPPORTUNITIES

NATIONAL CENTRE FOR CELL SCIENCE, PUNE

(An autonomous institution of the Department of Biotechnology, Government of India)

NCCS is devoted to research and development in modern Biology and Biotechnology. The Centre is looking for four outstanding Scientists in areas of cell-cell communication, signal transduction, cell proliferation, differentiation, molecular genetics, protein chemistry and folding, cellular and molecular immunology, membrane dynamics etc. Candidates should have published work of high quality. Applications are invited from Indian citizens for various scientific positions. Applicants must possess a doctoral degree or equivalent. The applicant should send a CV along with a summary of research interests and goals as well as arrange to have at least three letters of reference sent to:

Dr. G.C. Mishra, Director
National Centre for Cell Science
(University of Pune Campus)
Pune - 411 007, Maharashtra, India
Fax No. 91-0212-372259

Applications should reach us within two months of appearance of this advertisement.

DEPARTMENT OF PATHOLOGY UNIVERSITY OF CALIFORNIA, IRVINE

The Department of Pathology, University of California, Irvine, anticipates openings with starting dates between January 1, 1997 and December 31, 1997 in (i) Faculty positions (Assistant/Associate/Full Professors in the adjunct and clinical series), and (ii) Research Positions (Researcher, Specialist and Postgraduate Researcher series). The current faculty and their research interests are:

P. Carpenter	Oncogenes and metastasis-associated genes in breast and ovarian cancer
B. Choi	Neurobiology, neurotoxicology
L.M. de la Maza	Chlamydia trachomatis: immunopathology and vaccine development
J. Emerson	NMR and Alzheimer's disease
J. Hiserodt	Immunology and immunotherapy of malignancy
Y. Kikkawa	Pulmonary biology, P450 and free radical pathology
R. Newman	Organ transplantation
E. Paterson	Chlamydia trachomatis: immunopathology and pathogenicity
W.E. Robinson	HIV/SIV: Immunopathology and Experimental Therapeutics
M. Samoszuk	Hematopathology, cytokines in lymphomas, new therapeutics
M. Selsted	Host defense mechanisms in granulocytes; mucosal immunity; antimicrobial function of the lung
S. Sloan	Transcription factors in the immune system
J. Thompson	Hematopathology, immunotherapy of malignancy

Candidates should send CV to **Yutaka Kikkawa, M.D., Professor and Chair, Department of Pathology, UCI-COM, D440 Med Sci, Irvine, CA 92697-4800.** *The University of California, Irvine: rooted in education, enriched by diversity.*

GLOBAL CAREER OPPORTUNITIES

DIRECTOR OF THE RESEARCH SCHOOL OF BIOLOGICAL SCIENCES, INSTITUTE OF ADVANCED STUDIES, THE AUSTRALIAN NATIONAL UNIVERSITY. The University is seeking to appoint a Head of the Research School of Biological Sciences to succeed Professor C. Barry Osmond, FAA, FRS, whose appointment will conclude on 31 May 1998. The Research School of Biological Sciences, which is one of eight research schools comprising the Institute of Advanced Studies, is a leading centre of biological research and graduate student training. The School encourages integrative research across all levels of biology from molecules to cells, organisms, ecosystems, and the biosphere. It focuses on five research themes: (1) Biodiversity, as displayed from nucleotide sequences to ecosystems; (2) Integrative neuroscience, embracing mechanisms and development of nervous systems that serve vision, audition, and memory; (3) Biology of the cell surface, especially in plant development and plant microbe interactions; (4) Plant biochemistry and physiology, especially photosynthesis; and (5) Plant community and global biology. The School is divided into ten groups which allows for flexible organisation of research teams engaged in specific projects. At present, the School has about 230 academic, technical, and administrative staff, and about 50 Ph.D. students. The University is seeking an intellectual leader of international distinction with a broad vision of the biological sciences. The Director's responsibility will be through the Vice-Chancellor to the University Council for the operation and development of the Research School, for its leadership as an academic enterprise and for the management of its human and other resources. In addition, the appointee will be expected to contribute positively to the strategic development of the Institute of Advanced Studies as a whole. Applicants should have experience in research management and the ability to sustain and develop linkages within the School and University, with other universities and research institutions in Australia and overseas, and with government and industry. They should also have the ability to promote the image of the School, the Institute, and the University, and lead initiatives to attract funds from outside the University. The successful candidate will be offered an appointment as a Professor of the University. The term of office as Director, normally five years, will be fixed by the University in consultation with the person recommended. Remuneration will include superannuation, the use of a fully maintained University vehicle, and other benefits. Contact: **Mr. Alick Dodd, Office of the Director, Institute of Advanced Studies and Deputy Vice-Chancellor, Telephone: (Int. 61-6)(Natl. 06) 2493562; Fax: (61-6) or (06) 249 5482; Email: alick.dodd@anu.edu.au.** Further particulars and selection criteria should be obtained from the Secretary before applying, **Telephone: (06) 249 4566; Fax: (06) 249 5011; Email: academic.staffing.appointments@anu.edu.au.** Closing date: 17 February 1997. Ref: RSBS 11.12.1. Applications should be written against the selection criteria and be submitted in duplicate to the **Secretary, The Australian National University, Canberra ACT 0200**, quoting reference number and including curriculum vitae; list of publications; and names, addresses, and fax numbers of at least three referees. The University has a "no smoking" policy in all buildings and vehicles. *The University is an Equal Opportunity Employer.*

NATIONAL INSTITUTES OF HEALTH

DEPARTMENT OF HEALTH AND HUMAN SERVICES

THE CRANIOFACIAL AND SKELETAL DISEASES BRANCH, NATIONAL INSTITUTE OF DENTAL RESEARCH, NATIONAL INSTITUTES OF HEALTH, IS SEEKING TO FILL A STAFF SCIENTIST POSITION FOR THE PURPOSE OF ESTABLISHING A PROGRAM FACILITY IN BONE AND MARROW CELL BIOLOGY.

The candidate must have an advanced degree (D.D.S., M.D., D.M.D., Ph.D.) or possess equivalent combination of experience and training and a proven track record in bone and marrow cell biology. The successful candidate will be expected to organize and maintain a program facility dedicated to the establishment of high quality, reproducible cultures of bone and marrow-derived cells to be used by Branch staff members and other cooperating units. The staff scientist position is a permanent, full-time position, but is not independent. The staff scientist is assigned to a senior, tenured, independent investigator for supervision, and will receive resources for the maintenance of the program facility from that individual. Salary ranges from \$52,867 - \$68,729 per annum.

Applicants may apply by submitting a curriculum vitae and bibliography, a resume, Optional Application for Federal Employment, OF-812 (available in any Federal Personnel Office), or an application in any other written format.

Further information about the position and qualification requirements, including knowledge, skills, and abilities required, may be obtained from: **Ms. Faye M Harbrant, Personnel Management Specialist, National Institute of Dental Research, National Institutes of Health, 31 Center Drive MSC 2290, Building 31, Room 2C-23, Bethesda, Maryland 20892-2290; (301) 496-6971.**

Application materials must be postmarked and sent to Ms. Harbrant by the closing date of February 28, 1997.

NIH is an Equal Opportunity Employer.

POSITIONS OPEN

NEW ENGLAND REGIONAL PRIMATE RESEARCH CENTER HARVARD MEDICAL SCHOOL

POSTDOCTORAL FELLOWSHIPS in comparative and experimental pathology for medical professionals (D.V.M., M.D., or equivalent). The research focus of the program is on the pathogenesis of immunosuppressive lentiviral infections and associated opportunistic infections using the SIV-macaque model. Fellows acquire in-depth knowledge and experience with such investigative tools and techniques as immunohistochemistry, *in situ* hybridization, flow cytometry, PCR, immunoelectron microscopy, cytokine biology, molecular biology, and other laboratory techniques. The program also meets all the requirements of the American College of Veterinary Pathologists (ACVP), for eligibility to take its certifying examination. The position is supported by a three-year NIH Institutional Training Grant. Applicants must be citizens or non-citizen nationals of the United States, or must have been lawfully admitted to the U.S. for permanent residence. Please send curriculum vitae, cover letter indicating your research interests and experience, and names of three references to: **Andrew A. Lackner, D.V.M., Ph.D., NER-PRC-Harvard Medical School, One Pine Hill Drive, P.O. Box 9102, Southborough, MA 01772-9102.**

POSTDOCTORAL POSITIONS BREAST CANCER RESEARCH

We investigate the molecular mechanisms by which estrogen receptor regulates specific genes, and the means by which antiestrogens alter this regulation. Specifically we use cell culture and purified protein systems to measure receptor interaction with responsive element DNA, and with hormone, and how that effects gene expression in cells. We are currently examining the role of partial responsive element sequences found in many genes, and characterizing a protein that regulates receptor binding to specific genes. Our laboratory is stably funded and productive. Check our publications on MEDLINE on the Internet, and our university homepage. Send curriculum vitae and three letters of recommendation to: **Drs. Russell Hilf and Robert Bambara, Biochemistry and Cancer Center, Box 712, University of Rochester Medical Center, 601 Elmwood Avenue, Rochester, NY 14642. We are an Equal Opportunity Employer.**

UNIVERSITY OF MIAMI SCHOOL OF MEDICINE Sylvester Comprehensive Cancer Center Postdoctoral Associate

Seeking Ph.D. in biochemistry/molecular immunology. Should be experienced in protein purification and characterization. Knowledge in cellular signaling and/or molecular biology will be additive. Salary commensurate with previous publications and experience. Must exhibit excellence in research. Please forward curriculum vitae and names of three references to: **Amitabha Mazumder, M.D., Associate Director for Clinical Research, c/o Susan Martin, Sylvester Comprehensive Cancer Center, 1475 NW 12 Avenue (D8-4), Miami, FL 33136. Affirmative Action/Equal Opportunity Employer.**

CANCER RESEARCH

Molecular biologists and molecular immunologists. Genquest is a new cancer genomics company focusing on the development of novel therapeutics and diagnostics. Genquest is seeking **DOCTORAL LEVEL SCIENTISTS** (Ph.D., D.Sc., M.D., or equivalent) to work in its facility in New York City. The successful applicants will have a minimum of two to three years of postdoctoral experience in cloning and characterization of genes, recombinatorial phage display libraries, etc. Genquest is seeking qualified scientists at various levels. Competitive salary and benefits, including stock options. Please send curriculum vitae, statement of research interests, and names of three references to: **Genquest Inc., 1124 Columbia, Suite 464, Seattle, WA 98104. FAX: 206-667-5715. An Equal Opportunity Employer.**

POSTDOCTORAL POSITION available for studies of B cell differentiation *in vivo* and somatic mutagenesis of antibody genes at the single cell level. Candidates should have a strong background in molecular immunology. Studies will involve high-resolution cell sorting, single-cell/molecule PCR, transgenic construction, FISH analyses and RNA processing/analyses. Send curriculum vitae to: **Dr. Lawrence J. Wysocki, Division of Basic Sciences K902, National Jewish Center for Immunology, 1400 Jackson Street, Denver, CO 80206. FAX: 303-270-2182; Email: wysockil@njc.org. Equal Opportunity/Affirmative Action Institution.**

POSITIONS OPEN



POSTDOCTORAL POSITION

Kemin Industries, Inc., a world leader in specialty products for animal agriculture, is continuing to expand its research and development base at its worldwide headquarters located in Des Moines, Iowa. A **POSTDOCTORAL POSITION** for a biochemist is available immediately to study basic and applied aspects of nutrient digestion and absorption upon supplementation of animal feed with digestive enzymes. Strong background in enzymology and protein chemistry is required; experience in carbohydrate chemistry and animal physiology is a plus. No smoking is allowed on the premises. Job offer is conditional on passing a physical, including a drug screen.

Send curriculum vitae and names of three references to: **Dr. F. Brinkhaus, Kemin Industries, Inc., 2100 Maury Street Box 70, Des Moines, IA 50301-0070. An Equal Opportunity Employer.**

POSTDOCTORAL POSITION IN MASS SPECTROMETRY Center for Experimental Therapeutics and Reperfusion Injury

Available immediately. Research involves application of LC-MS-MS and GC-MS to analyses of lipid-derived mediators, pharmacokinetics, and structural elucidation in the biochemistry of inflammation and tissue injury. The initial appointment will be for one year, with a possible extension. Applications will be accepted until the position is filled. Please send a curriculum vitae and two letters of reference to:

**Prof. Charles N. Serhan
Director, Center for Experimental Therapeutics
and Reperfusion Injury
Brigham and Women's Hospital
Harvard Medical School
75 Francis Street
Boston, MA 02115**

Harvard Medical School and Brigham and Women's Hospital are Equal Opportunity/Affirmative Action Employers.

POSTDOCTORAL POSITION Center for Surgical Research, Brown University

POSTDOCTORAL POSITION available immediately to study cell and organ function following hemorrhagic shock. An M.D., Ph.D. or equivalent degree in physiology/biochemistry is required. Emphasis on cell, organ physiology, and molecular biology is desired. Previous experience with small animal surgery, cardiovascular function determination, general molecular biological techniques (RNA/DNA, RT-PCR, *in situ* hybridization), and biochemistry techniques such as signal transduction is essential. Starting salary is \$25,000 to \$28,000 with benefits dependent on qualifications. Mail or fax curriculum vitae, brief summary of salient research experience, and names and addresses of three references to: **Dr. Irshad H. Chaudry, Director, Center for Surgical Research, Middle House II, Rhode Island Hospital, 593 Eddy Street, Providence, RI 02903. Telephone: 401-444-5582; FAX: 401-444-3278.**

M.D. OR D.V.M., or equivalent knowledge of medicine or veterinary medicine, capable of designing and carrying out the full range of molecular genetics experiments. Specifically, applicant must be fully capable in linkage analysis, gene mapping, cloning, library screening, cDNA selection, exon trapping, etc., and know the human, veterinary and mouse genetic literature. Candidate is expected to identify the responsible gene and find the mutations in canine, horse, and human genetic diseases by using the knowledge of medicine, veterinary medicine, genetics, and molecular genetic technology. Salary: \$30,000 to \$40,000. Please contact: **Mrs. Anne Moorman, Department of Human Genetics, University of Michigan, Telephone: 313-764-5499. An Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION available immediately in the area of anticancer drug development including metabolism, pharmacokinetics/dynamics and pharmacology. Research is focused on modulation of DNA repair to enhance chemotherapy. Candidates must have experience in standard molecular techniques, HPLC and cell culture. Applicants should send curriculum vitae, summary of research interests, and names of three references to: **M. Eileen Dolan, Section of Hem/Onc, Box MC2115, University of Chicago, Chicago, IL 60637. FAX: 773-702-3163.**

POSITIONS OPEN

An NIH-funded **POSTDOCTORAL** position is available immediately to study the roles played by MAPs in the control of neuronal polarity in identified lamprey central neurons *in situ*. The project involves the identification, characterization and cloning of lamprey MAPs, the expression of cloned genes, and selective suppression of endogenous MAPs using antisense techniques. A strong background in molecular biology, with expertise in manipulating a wide variety of eukaryotic expression vectors, is required. Experience with cDNA library construction and screening and the identification and characterization of phylogenetically related genes is particularly desirable. Please send curriculum vitae, a letter describing research experience, and the names and telephone numbers of three references to: **Dr. Garth Hall, Department of Biology, University of Massachusetts, Lowell, 1 University Avenue, Lowell, MA 01854. FAX: 508-934-3044.**

POSTDOCTORAL POSITION

POSTDOCTORAL FELLOW position available to study a novel protein kinase identified in our laboratory that has been linked to the interleukin-1 signaling pathway (J. Biol. Chemistry 271(30):17609, 1996). Potential research projects include: structure-function analysis; identification of *in vivo* substrates; the role of the kinase in the developmental acquisition of immune and inflammatory responses. Send curriculum vitae, summary of research interests and experience, and three references to:

**Maureen Harrington
Department of Biochemistry & Molecular
Biology—MS 410
Indiana University School of Medicine
635 Barnhill Drive
Indianapolis, IN 46202-5121**

NATIONAL CANCER INSTITUTE

POSTDOCTORAL POSITIONS are available immediately to conduct research on the molecular biology and evolution of retroviruses, with emphasis on HIV and related lentiviruses. The laboratory is currently studying AIDS pathogenesis, vaccine development, and the identification of novel antiviral compounds. Applicants must have a Ph.D. and/or M.D. degree with a strong background in molecular biology and virology preferred, and less than five years postdoctoral experience. These positions are open to U.S. citizens and foreign nationals; duration is up to five years. Send curriculum vitae and names of three references by March 31, 1997 to: **Raoul E. Benveniste, Ph.D., M.D., Laboratory of Genomic Diversity, Building 560/Room 21-78, P.O. Box B, NCI-FCRDC, Frederick, MD 21702-1201. FAX: 301-846-1909. NIH is an Equal Opportunity Employer.**

POSTDOCTORAL POSITION NUCLEAR PROTEIN IMPORT

A **POSTDOCTORAL POSITION** is available in the Center for Cell Signaling at the University of Virginia to investigate mechanisms of nuclear protein import. The successful candidate will combine biochemical, molecular, and cell biological approaches to study both the cytosolic machinery and the proteins of the nuclear pore complex that mediate protein transport. Experience in yeast genetics, advanced microscopy, or protein biochemistry is helpful. Contact:

**Dr. Bryce M. Paschal
Center for Cell Signaling
University of Virginia
HSC Box 577 Hospital West
Charlottesville, VA 22908**

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POSTDOCTORAL positions are available to work on cutting-edge research on biological and clinical relevance of LH/hCG receptor gene expression in nongonadal tissues. Candidates with experience in the latest molecular biology techniques are invited to apply. Contact: **Dr. C. V. Rao, Department of Ob/Gyn, University of Louisville, Louisville, KY 40292. FAX: 502-852-0881.**

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Applicants will be expected to hold an MD, PhD or both with relevant postdoctoral training, and to have developed an internationally recognised, well-funded research program, which they will re-establish with institute support at the VCCRI. Candidates with a distinguished record of research in any area of cardiovascular science will be given serious consideration, although those that apply the tools and concepts of molecular, cell, and/or developmental biology to understand cardiovascular behaviour, and, specifically, cardiac myocyte biology are particularly encouraged to apply. In addition to continuing a high-quality individual and interactive research program, the appointee will have responsibility for further developing the programmatic research interests of the Institute in the molecular basis of cardiovascular biology and disease, and in the training of postgraduate students in molecular cardiology. The appointee must also have the capacity and willingness to implement and/or develop EEO/AA policies and principles.

The successful applicant will be appointed to the position of Professor for a period of up to five years. Following this term, and subject to a satisfactory performance evaluation, the appointment may be renewed for a further period of up to five years.

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The University reserves the right to fill any Chair by invitation or to not fill the Chair. People from EEO groups are encouraged to apply.

Enquiries in relation to the position may be made to Professor Robert M. Graham, Executive Director on telephone (61 2) 9295 8500, facsimile (61 2) 9295 8501 or email: b.graham@victorchang.unsw.edu.au.

A position description, together with conditions of appointment and application cover sheet are available from Ms Fiona Duncan, Human Resources Department, University of New South Wales, Sydney, NSW 2052 Australia, telephone (61 2) 9385 1161, facsimile (61 2) 9662 2832.

Applications close 15 March 1997.

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Sultan Qaboos University, the national university of Oman, invites applications for Head of Department of Food Science and Nutrition, College of Agriculture.

The incumbent will provide leadership for the overall organization and administration of teaching, research, and service activities of the Department. The successful candidate is expected to develop, improve, promote and stimulate quality and relevant academic programs in the Department, and to provide leadership, active participation in curriculum development, and inspiration to the staff and students to pursue high standards of learning and scholarship. The incumbent is responsible for the selection, training, assignment, and evaluation of personnel; planning and budgeting for facilities and equipment; recommending the hiring, promotion, termination, and discipline of staff; liaison with relevant departments in the University and government agencies and private sectors; exploiting extramural support and collaborative research; and implementing research projects and disseminating research findings.

Applicants should possess a Ph.D. degree in food science, food technology, food engineering or related disciplines from a reputable university, with professional credentials of a high order, sufficient to meet the criteria for full or associate professorship. Proficiency in spoken and written English is required. Candidates with at least 10 years of experience in a full-time appointment on the academic staff of a recognized and reputable academic institution, who have demonstrated the professional growth and potential for leadership, are desirable.

Apart from a very attractive tax free salary, the University offers free furnished accommodation, annual leave with round trip first class air tickets, end of service gratuity, and free medical treatment in government hospitals in the Sultanate.

Interested candidates are requested to submit a letter of application and full resume, quoting our Ref: ADV/AGRI/14/96, to: **The Director, Personnel Affairs, Sultan Qaboos University, P.O. Box 50, Al-Khod-123, Sultanate of Oman. Fax: (968) 513255.** Closing date for applications is 15 March 1997, or until a suitable candidate is identified.

Position Title: Director, Division of Mental Health and Drug Abuse Research, National Health Research Institutes

FTE/Hours: Full-time

Description and Qualification: The newly-created Division of Mental Health and Drug Abuse Research seeks a Director who will be responsible for the planning, developing, coordinating, and implementing of the Division's intramural research programs. The ideal candidate must be a board-certified M.D. in psychiatry, or a Ph.D. with a strong background in neuroscience. The Director must have excellent leadership qualities as well as outstanding research administrative skills. A proven track record in clinical or molecular neuroscience research is required, with emphasis on psychiatry, mental health, and drug abuse specifically relating to people in Taiwan.

Please apply to:

President Cheng-Wen Wu

National Health Research Institutes

128, Yen-Geo-Yuan Road, Sec. II

NanKang, Taipei 11529

Taiwan, R.O.C.

Fax: 886-2-782-5573

Application shall include: CV, research proposal, one copy each of selected reprints, and five recommendation letters sent directly to President Wu.

POSITIONS OPEN

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Corixa Corporation is a biotechnology company dedicated to the development of T cell vaccines and therapies for cancer and infectious diseases. Corixa is currently recruiting for the following **DOCTORAL** level positions.

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VACCINE FORMULATION: Seeking formulation scientist with a broad range of experience in formulating peptides and proteins for vaccine delivery. Specific experience in the area of PLGA microsphere formulation and characterization; formulation of antigens with both conventional and novel adjuvants; knowledge of the requirements for preparing vaccine formulations for human clinical trials.

Please send curriculum vitae, statement of research interests, position applied for, and names of three references to:

Corixa Corporation
1124 Columbia, Suite 464
Seattle, WA 98104
FAX: 206-667-5715

Equal Opportunity Employer

The Botany/Microbiology Department at Ohio Wesleyan University seeks a **PLANT PHYSIOLOGIST** for a three-year term position, with a very strong likelihood of conversion to a tenure-track position, to begin in August 1997. Teaching duties include plant physiology, introductory botany, and selected microbiology laboratory classes. Individuals with expertise in the molecular aspects of plant physiology, plant-microbe interactions, and genetic regulation of plant development are encouraged to apply. Candidates must have Ph.D., a demonstrated commitment to undergraduate teaching, and an ability to develop a research program that will involve undergraduate students. Applications should include curriculum vitae, statement of research interests, reprints of selected publications, official college transcripts, and three letters of recommendation received by February 20, 1997 to: **Dr. J. Goldstein, Botany/Microbiology Department, Ohio Wesleyan University, Delaware, OH 43015.** *Ohio Wesleyan is an Affirmative Action/Equal Opportunity Employer, and encourages applications from women and minorities.*

POSTDOCTORAL POSITION in glycobiology lab to purify Golgi membrane proteins, analyze oligosaccharides and/or clone genes involved in glycoprotein biosynthesis. Ph.D. in biochemistry or molecular biology required; membrane protein, oligosaccharide analysis, cell culture and radioisotope experience desirable. Send statement of research goals and curriculum vitae, and have three reference letters sent to: **Dr. Barbara Criscuolo Waldman, Department of Biological Sciences, CLS 401, University of South Carolina, Columbia, SC 29208.**

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Application Deadline: April 15, 1997. Course Fee: \$1,600 (room and board available at no additional charge). Limited financial aid is available.

For further information and application forms contact: **Admissions Coordinator, Marine Biological Laboratory, Woods Hole, MA 02543.** Telephone: 508-289-7401; Email: admissions@mbi.edu; Web: <http://www.mbl.edu>. *Women and minorities are encouraged to apply.*

POSITIONS OPEN


POSTDOCTORAL POSITIONS

Two postdoctoral positions are available immediately to study regulation of visual signal transduction in vertebrate retinal photoreceptors. The projects involve: purification and characterization of novel proteins, and elucidation of functions and regulation of these proteins in visual signal transduction. Candidates with dedication to biomedical research are sought to undertake research of biochemical and molecular biological aspects of novel proteins in phototransduction. The successful candidates will have a Ph.D. in biochemistry or in a related discipline with experience in molecular biological methods including gene cloning, PCR and gene expression. Please forward curriculum vitae and three reference names and addresses to: **Akio Yamazaki, Ph.D., Kresge Eye Institute, Wayne State University, School of Medicine, 4717 St. Antoine, Detroit, MI 48201.** Telephone: 313-577-2009. FAX: 313-577-0238. *Equal Opportunity Employer.*

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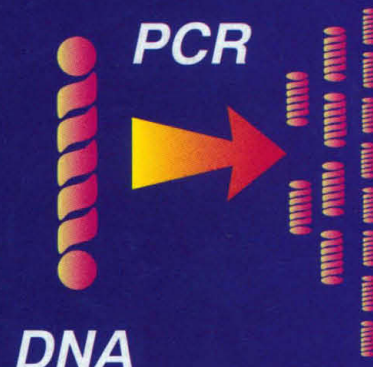
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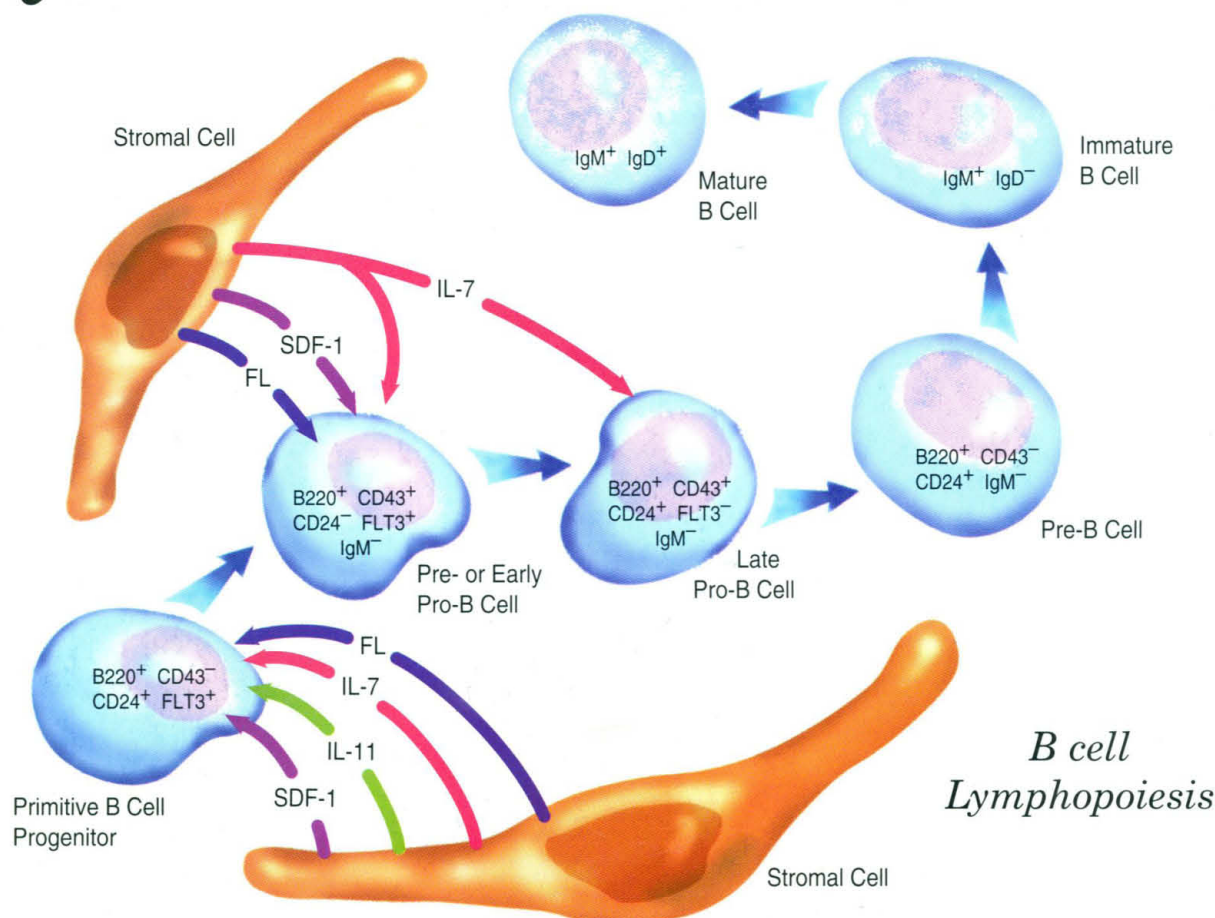
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