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POSITIONS OPEN

NEUROBIOLOGY CARNEGIE MELLON UNIVERSITY

The Department of Biological Sciences at Carnegie Mellon University seeks to fill the first of three **TENURE-TRACK FACULTY POSITIONS** as part of an expansion in the area of neurobiology in collaboration with the Center for the Neural Basis of Cognition (CNBC). At least one appointment each is expected in invertebrate and vertebrate neurobiology. The successful candidates are expected to develop independent research programs and to participate in the teaching of undergraduate and graduate students. Preference will be given to candidates who use interdisciplinary approaches including molecular and genetic methods in tractable model systems. Specific research interests can include problems in developmental neurobiology, neuronal function, learning, memory, or other areas of cognitive/functional neuroscience. The successful candidates will benefit from the strengths of the CNBC in neurophysiology, functional imaging, behavioral analysis, and computational modeling of the neural basis of cognition, from existing strengths of the Department of Biological Sciences in cellular and developmental biology, genetics/molecular biology, microscopy, biological detection, imaging and computing, and from the full breadth of the neuroscience community at Carnegie Mellon and the University of Pittsburgh. Applicants must have a Ph.D. and relevant postdoctoral experience. Please send curriculum vitae and a description of the proposed research program and have three letters of recommendation sent to: **Biological Sciences Search Committee, Carnegie Mellon University, Mellon Institute, Box L, 4400 Fifth Avenue, Pittsburgh, PA 15213**. Review of applications will begin on January 1, 2000, and continue until a suitable candidate is identified.

Our department is eager to diversify its faculty; we encourage women and minorities to apply. Carnegie Mellon University is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION IN INSECT MOLECULAR BIOLOGY

The Department of Entomology and Plant Pathology at Oklahoma State University invites applicants for a tenure-track **ASSISTANT PROFESSOR** position. The successful candidate will be expected to develop a strong, externally funded research program in which molecular biology techniques are used to address fundamental biological problems in insects or closely related arthropods of importance in agriculture. Send curriculum vitae, transcripts, and the names and addresses of three references to: **Dr. Jack W. Dillwith, Chair, Search Committee, Department of Entomology and Plant Pathology, 127 Noble Research Center, Oklahoma State University, Stillwater, OK 74078-3033**. Telephone: 405-744-9405; FAX: 405-744-6039; e-mail: jwd9890@okstate.edu. Application review will begin October 15, 1999, and continue until position is filled. For additional information visit our website: <http://www.ento.okstate.edu>. *OSU is an Affirmative Action/Equal Employment Opportunity Employer committed to multicultural diversity.*

BOSTON UNIVERSITY

The Department of Chemistry invites applications for a tenure-track faculty position at the **ASSISTANT PROFESSOR** level. We seek a person who will establish a vigorous and innovative research program at the intersection of physical chemistry and the biological sciences, and who will participate in the undergraduate and graduate teaching activities of the Department. The position will commence in September 2000. Candidates should submit a curriculum vitae, a description of proposed research, and arrange for three letters of recommendation to be sent directly to: **Professor Tom Tullius, Chairman, Department of Chemistry, Boston University, 590 Commonwealth Avenue, Boston, MA 02215**. The deadline for receipt of applications is November 1, 1999. *Boston University is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

FACULTY POSITION IN PLANT NEMATOLOGY

The Department of Nematology, University of California, Riverside, invites applicants for an 11-month tenure-track position at the **ASSISTANT PROFESSOR** level. The position will be available July 1, 2000, and carries a 75 percent research appointment in the Agricultural Experiment Station and a 25 percent teaching appointment in the College of Natural and Agricultural Sciences. The successful applicant will be expected to develop an innovative and highly competitive internationally recognized research program with emphasis on nematode ecology in the plant rhizosphere. Potential approaches include manipulating macrobiotic and microbiotic communities, as well as assessment of the overall and long-term environmental impact of plant nematode management systems. Opportunities in basic research also include investigation of plant parasitic and free-living species as bioindicators, as well as the role of nematode communities in energy flow. It is expected that the program will employ, but is not limited to, molecular tools. Applicants must have a Ph.D. in nematology or closely related fields and must possess a strong commitment to teaching and a high research potential. Applications, including a curriculum vitae, a statement of research and teaching interests, a complete list and selected reprints of publications, undergraduate and graduate transcripts, and three letters of reference should be sent to: **Dr. J. O. Becker, Department of Nematology, University of California, Riverside, CA 92521-0415**. Evaluation of applications will begin January 5, 2000, but the position will remain open until filled. Additional information about the department is available at website: <http://cnas.ucr.edu/~nem/index.html>. *The University of California is an Affirmative Action/Equal Opportunity Employer.*

FACULTY POSITION IN BIOCHEMISTRY AND MOLECULAR BIOLOGY The University of Chicago

The Department of Biochemistry and Molecular Biology at the University of Chicago invites applications and nominations for a **TENURE-TRACK POSITION** at any rank. The University has established a new interdivisional institute that links faculty in the Biological and Physical Sciences Divisions. We seek candidates who have or will establish outstanding programs focusing on fundamental research at the biological-physical science interface. In addition, all faculty are expected to teach in the departmental program. Applications should include a curriculum vitae, list of publications, summary of past research, plan for future research, and letters of reference from at least three individuals who know the candidate's work well. Please submit complete applications and nominations by December 15, 1999, to: **Faculty Search Committee, Department of Biochemistry and Molecular Biology, The University of Chicago, 920 East 58th Street, Chicago, IL 60637**.

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

FACULTY POSITIONS

The Department of Biology at Davidson College invites applications for the following three tenure-track **ASSISTANT PROFESSOR** (preferred) positions: Geneticist, with a strong background in classical genetics; Developmental Biologist, with expertise in neurobiology; and Community Ecologist, with expertise in invertebrate biology. All three positions will teach introductory biology, as well as courses in their field. Research program involving undergraduates expected for all positions. Start-up funds available. Appointments begin August 1, 2000.

Interested persons should send their curriculum vitae, teaching and research statements, selected reprints, and three letters of reference to: **Dr. Verna Miller Case, Department of Biology, Davidson College, P.O. Box 1719, Davidson, NC 28036**. Website: <http://www.davidson.edu/academic/biology/job.html> by October 29, 1999. *Equal Opportunity Employer; women and minorities encouraged to apply.*

FACULTY OPENINGS: THE EVERGREEN STATE COLLEGE seeks broadly trained faculty interested in teaching in a public liberal arts institution emphasizing interdisciplinary study and team-teaching. "Regular" positions typically involve initial 3-year term contracts, rotation between specialized and general education courses, eligibility for permanent appointment after 3-6 years of full-time Evergreen teaching. All faculty help students develop effective writing. Review of completed applications will begin on dates indicated and continues until finalists are selected. For some of the following positions, as indicated, we invite applications only from recently trained candidates.

Fish Biology

We are seeking a broadly trained vertebrate biologist to participate in interdisciplinary team teaching. Ability to teach fish biology, natural history and ecology of fish and vertebrate zoology is required. Biologists with experience and/or interests that include the conservation biology of Northwest fish, and knowledge of how tribal, state and federal governments deal with fish issues are encouraged to apply. The successful candidate will have opportunities to teach in Evergreen's Master of Environmental Studies program. The Evergreen State College is located on a 1000-acre campus with 27 acres of Puget Sound tidelands, and two salmonid species have been known to spawn in streams on campus. We desire to find a person with research goals compatible with Evergreen's mission to mentor our outstanding undergraduate students, and a willingness to foster collaborations and sponsor student internships with nearby government agencies and tribal organizations. Position limited to applicants with 1 to 12 years of experience. Review of complete files starts October 29, 1999.

Mathematics

Mathematician with strong interests in undergraduate teaching in interdisciplinary, team-taught programs. Strong background in analysis and applied mathematics is required. Ability to teach introductory physics with calculus is desirable. In addition, the candidate should be capable of working closely with other faculty to develop interdisciplinary programs that integrate mathematics and quantitative reasoning into a broader cultural context. Ph.D. in mathematics preferred. Position limited to applicants with 1 to 12 years of experience. Review of complete files starts October 29, 1999.

Developmental Biology

Versatile developmental biologist with strong interests in undergraduate teaching in interdisciplinary, team-taught programs from the freshman to senior level. The applicant must have a strong background in molecular or organismal development from any of several subspecialties such as neurobiology, molecular or Mendelian genetics, endocrinology or anatomy. We seek someone who has the ability and the desire to examine ethical, economic, and societal implications of work in this field. Preferred applicants will have wide expertise in biology, will be committed to undergraduate research, and will work effectively with other faculty to develop interdisciplinary programs that integrate biology and quantitative reasoning into a broader cultural context. Ph.D. preferred. Position limited to applicants with 1 to 12 years of experience. Review of complete files starts October 29, 1999.

Urban Environmental Science (Tacoma)

Faculty member who has extensive knowledge and training (including fieldwork) in the health aspects of the urban environment to teach at our Tacoma campus. Specific knowledge of several of the following: toxicology, urban water quality, air quality, urban solid waste problems, food hygiene issues, urban structures and building health issues, and infectious diseases of particular significance in urban communities is highly desirable. The candidate should also have an historical understanding of the origins of urban environmental problems. Responsibilities include collaborative team teaching and course design and mentoring students and student teams in quarter-long research projects. All candidates should have teaching experience working with diverse adult students. Advanced degree in some aspect of environmental science or public health is required. Position limited to applicants with 1 to 12 years of experience. Review of complete files starts November 29, 1999.

Molecular Biology

Versatile molecular biologist with strong interests in undergraduate teaching in interdisciplinary, team-taught programs from the freshman to senior level. The applicant must have a strong background in molecular biology and biotechnology, preferably with plant and/or microbial systems. We seek someone who has the ability and the desire to examine ethical, economic, and societal implications of work in this field. Preferred applicants will have wide expertise in biology, will be committed to undergraduate research, and will work effectively with other faculty to develop interdisciplinary programs that integrate biology and quantitative reasoning into a broader cultural context. Ph.D. preferred. Position limited to applicants with 1 to 12 years of experience. Review of complete files starts January 3, 2000.

Ecological Agriculture

Broadly trained environmental scientist with ability to teach sustainable agriculture in an interdisciplinary context. The successful candidate must have hands-on small farm experience and experience with the scientific foundations of agriculture as well as the practical, economic, cultural, and social context in which agriculture is embedded. Experience and skills in community-based applications, particularly involving undergraduate students is desirable. Ph.D. in agriculture science or plant ecological physiology is preferred, though we will consider candidates trained in plant ecology, ethnobotany, entomology, plant pathology or related field in natural science. Review of complete files starts January 3, 2000.

The College reserves the right to extend searches or not offer positions advertised. All position offers are contingent on funding. Further information about Evergreen available at <http://www.evergreen.edu/facultyhiring>. Persons with disabilities can receive accommodations in the hiring process by contacting the Hiring Coordinator. For required application procedures, write **Faculty Hiring Coordinator, TESC, Olympia, WA 98505**; email blodgetd@evergreen.edu.

Dean
College of Natural and
Agricultural Sciences

University of California,
Riverside

The University of California, Riverside invites applications and nominations for the position of Dean of the College of Natural and Agricultural Sciences. We seek candidates with a fundamental commitment to academic excellence in instruction and research to lead the college.

As part of a land grant institution, faculty in the College carry out the three fold mission of teaching, research, and public service. Currently, the College has 239 academic positions and an enrollment of approximately 3000 undergraduates and 500 graduate students in 22 departmental and interdepartmental programs, including Biochemistry, Biology, Botany and Plant Sciences, Chemistry, Earth Sciences, Entomology, Environmental Sciences, Mathematics, Nematology, Neuroscience, Physics, Plant Pathology, and Statistics. Major research units within the College include the Institute of Geophysics and Planetary Physics, the Air Pollution Research Center, and the Citrus Research Center-Agricultural Experiment Station. The Chairs of the Departments and Interdepartmental programs, as well as the Directors of research units, report to the Dean. The Dean also has oversight responsibility for the UCR branch of the Agricultural Experiment Station. Day-to-day operations are administered by the Associate Dean for the Agricultural Experiment Station and Cooperative Extension, who reports to the Dean.

The Dean reports to the Executive Vice Chancellor, and through him to the Chancellor. As the most rapidly growing campus within the University of California system, UC Riverside is projected to increase from its current enrollment of 11,000 students to 15,800 by 2005 and 21,000 by 2010.

Applicants must have a distinguished record of research, teaching and public service appropriate to an academic appointment at the level of full professor in the College department of the candidate's discipline as well as a record of successful and creative leadership. The target date for appointment is July 1, 2000.

Review of nominations and applications will begin November 15, 1999 and continue until the position is filled. Nominations and letters of application, including a resume and the names and addresses of five references, should be sent to:

Chair, CNAS Dean Search Committee
c/o Office of the Chancellor
University of California, Riverside
Riverside, CA 92521

UCR is an Equal Opportunity/Affirmative Action Employer



UNIVERSITY OF CALIFORNIA
RIVERSIDE

The Endowment for
SCHOLARS
in

Biomedical Research

at
The University of Texas Southwestern Medical Center

UT Southwestern is pleased to announce the continuation of the Endowed Program for Scholars in Biomedical Research. The Program, which is fully funded from private endowment, will provide \$600,000 over four years to support the research activities of each new **Assistant Professor** (tenure track) appointed to the Program; five will be appointed annually. In addition, regular funding for salary, as well as research space, will be provided by the medical school department or research center offering the appointment. Positions in both **basic science** and **clinical departments** are available. The goal of the program is to assure a successful beginning of the research careers of an ever-growing cadre of outstanding young investigators at UT Southwestern.

For detailed information about currently available faculty positions, please access our web page: <http://www.swmed.edu>

SOUTHWESTERN
THE UNIVERSITY OF TEXAS
SOUTHWESTERN MEDICAL CENTER
AT DALLAS

UT Southwestern is an equal opportunity institution

**MOLECULAR
MECHANISMS
OF DEVELOPMENT**

Sponsored by Perinatal Research Institute and the training program in developmental and reproductive endocrinology, Children's Hospital Medical Center, Cincinnati, Ohio, and University of Cincinnati College of Medicine.

Registration Deadline: October 1

Registration Fee: Students and trainees, \$50; others, \$100. Scholarships are available to cover conference costs for selected graduate and undergraduate students.

Abstracts accepted for poster presentations.
Submission deadline is October 1.

Faculty

Argiris Efstratiadis, Ph.D.

Columbia University

Ronald Evans, Ph.D.

Salk Institute

James Fagin, M.D.

University of Cincinnati

Manfred Frasch, Ph.D.

Mount Sinai School of Medicine

Christopher Glass, M.D., Ph.D.

University of California, San Diego

Derek LeRoith, M.D., Ph.D.

National Institutes of Health

Donald McDonnell, Ph.D.

Duke University Medical Center

Jeffrey Molkentin, Ph.D.

University of Cincinnati

Wesley Pike, Ph.D.

University of Cincinnati

Peter Rotwein, M.D.

Oregon Health Sciences University

Christine Seidman, M.D.

Harvard Medical School

Joseph Yost, Ph.D.

University of Utah

**44th Rachford
Lectures**

**An International
Symposium**

November 15 and 16, 1999

**Children's Hospital
Medical Center
University of Cincinnati
College of Medicine**

Cincinnati, Ohio



For information about registration, abstracts and student scholarships, visit:
www.cincinnatichildrens.org/rachford/

Or contact: Shirley Courtney, Phone: (513) 636-4209,
Fax: (513) 636-7486, E-mail: cours0@chmcc.org



EMPLOYMENT OPPORTUNITIES IN DEVELOPING AIDS VACCINE AND PREVENTION INTERVENTIONS

The National Institute of Allergy and Infectious Diseases, Division of AIDS, Vaccine and Prevention Research Program (VPRP) has a need for dynamic and committed individuals with scientific, medical, and/or management experience to help lead a global effort to develop safe and effective AIDS vaccines and other prevention strategies. Senior leadership positions will be available in preclinical research and in prevention research. Starting salary ranges from **\$80,658 - \$104,851** and is commensurate with experience/present salary. In addition, there are positions for medical officers, pediatricians, microbiologists, virologists, and/or immunologists at various levels. Starting salary ranges from **\$58,027 - \$89,142** and is commensurate with experience/present salary. Physician compensation allowances are available where appropriate.

The VPRP directs an extensive multidisciplinary research program into basic and clinical microbiology, immunology and virology, design, development and clinical evaluation.

For inquiries regarding current vacancies please contact:

Blanche O'Neill

Vaccine & Prevention Research
Division of AIDS, NIAID, NIH
OAD/Room 4100
6700-B Rockledge Drive, MSC-7628
Bethesda, Maryland 20892-7628
Phone: (301) 435-3726
Fax: (301) 402-3684

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Clinical Research Physician

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For more detailed information on these and other job opportunities, please visit our website at:

www.cato.com

CATC
RESEARCH



Assistant Professor



Molecular & Environmental Microbiology University of Colorado at Boulder

The Department of Molecular, Cellular and Developmental Biology (MCDB), and the Cooperative Institute for Research in Environmental Sciences (CIRES) at the University of Colorado at Boulder seek applicants for a tenure-track faculty position in microbiology. Preference will be given to candidates at the Assistant Professor level, but all applicants will be considered. The successful candidate will have a record of scholarly achievement in molecular and environmental microbiology with an emphasis on prokaryotic molecular biology and be interested in collaborative research in environmental sciences. Research areas of special interest include a) the application of molecular methods to problems in environmental sciences and b) extremophile biology. For more information about MCDB and CIRES, please see our Web sites at <http://mcdb.colorado.edu> and <http://cires.colorado.edu>. Send or fax (303-492-1149) a cover letter, CV and statement of research interests, and arrange for three letters of reference to be sent to:

Professor Norman Pace
Professor Shelley D. Copley
CIRES/MCDB
Campus Box 216
University of Colorado at Boulder
Boulder, CO 80309-0216

Screening of applications will begin on Nov. 30, 1999, and will continue until the position is filled.

The University of Colorado at Boulder is committed to diversity and equality in education and employment.

PENNSTATE



FACULTY POSITIONS

SIGFRIED AND JANET WEIS CENTER FOR RESEARCH HENRY HOOD RESEARCH PROGRAM

Outstanding scientists are sought for faculty positions in the Weis Center for Research located on the Danville campus of The Pennsylvania State University College of Medicine. The center is adjacent to the Geisinger Medical Center, one of the two major teaching hospitals of the Penn State Geisinger Health System. The Center is a modern research facility that includes 65,000 square feet of laboratories, offices, animal facilities, and research conference areas. It is located in a pleasant, semi-rural living environment with convenient access to the major metropolitan areas of New York and Baltimore.

We are seeking candidates interested in participating in an interactive program focused on Biophysics, Cellular Signaling, and Genetics/Genomics. The successful candidates will participate in the formulation of the new Department of Integrative Molecular Medicine and Genetics that is to be established in Penn State's College of Medicine, and is to be based primarily at the Danville campus.

We seek candidates with an outstanding record of research accomplishments. It is preferred that the candidates' areas of expertise complement existing strengths in cell and molecular biology, and have a genetic component to their research. Substantial resources are available for start-up funds for the new Faculty as well as access to core facilities of the Department.

Interested and qualified individuals are encouraged to send their curriculum vitae, statement of research and teaching interests, and the names, addresses and telephone numbers of four references by October 15, 1999 to: **Stephen F. Vatner, M.D., c/o Mrs. Barbara A. Brown, Administrative Assistant, Box S-5198, Sigfried and Janet Weis Center for Research (SFV), 100 North Academy Avenue, Danville, PA 17822-2601.**

Penn State is committed to affirmative action, equal opportunity and the diversity of its workforce.

SYMPOSIUM

Whitehead Symposium XVII

"The Biology of Drug Discovery"

**October 24 – 26, 1999
Kresge Auditorium, MIT**

Speakers include: Susan Amara, Carolyn Bertozzi, Patrick Brown, Jonathan Ellman, Ronald Evans, Stanley Fields, Judah Folkman, Claire Fraser, Ulrike Heberlein, Ira Herskowitz, Peter Kim, Chaitan Khosla, Eric Lander, John Mekalanos, Stuart Schreiber, Edward Scolnick, Robert Siliciano, Jose Varghese, Inder Verma, Charles Weissman, Jim Wells, Dyann Wirth.

Registration

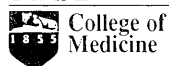
Regular (includes postdocs): \$100

Student: \$35 (ID required)

MIT Student: No charge

To obtain a registration form call Whitehead Institute Public Affairs at 617-258-5183, or visit Whitehead Institute's website at www.wi.mit.edu and click on "conferences."

PENNSTATE



FACULTY POSITION, PATHOLOGY AND IMAGING LABORATORY

A full-time faculty member is sought to direct the Pathology and Imaging Core Facility at the Weis Center for Research. Qualified candidates will have a Ph.D., D.V.M., M.D. or equivalent degree with 3 or more years postdoctoral experience in cell biology, molecular biology and experimental pathology using immunostaining and computer assisted morphometric analysis, confocal microscopy and electron microscopy. Candidates must show clear evidence of academic achievements and competence in pathologic evaluation of cardiovascular tissue. In addition to directing the core laboratory, the individual will carry out independent research and interact with other members of the cardiovascular pathology, physiology, molecular biology and biochemistry programs of the Center.

The Weis Center for Research is a modern research facility located on the Danville campus of The Pennsylvania State University College of Medicine. The Center is adjacent to the Geisinger Medical Center, one of the two major teaching hospitals of the Penn State Geisinger Health System. It is located in a pleasant semi-rural living environment with convenient access to the major metropolitan areas of New York and Baltimore.

Interested and qualified individuals are encouraged to send their curriculum vitae and the names of three references by October 15, 1999 to: **Mrs. Barbara A. Brown, Administrative Assistant, Sigfried and Janet Weis Center for Research (SFV), (Box S-5849), 100 North Academy Avenue, Danville, PA 17822-2601.**

Penn State is committed to affirmative action, equal opportunity and the diversity of its workplace.



Mayo Clinic Postdoctoral Position

A postdoctoral research position is open immediately in the Division of Experimental Pathology to study interactions of tumor suppressors with cell cycle regulatory proteins and the mitotic spindle apparatus. Candidates should have a PhD in cell biology or related field. Experience with confocal microscopy is required; protein chemistry and molecular biology desired. A highly competitive salary and benefits package is available to the motivated candidate. Send a full curriculum vitae with names and addresses of three references to:

Wilma L. Lingle, PhD
Division of Experimental Pathology
Guggenheim 10
Mayo Clinic
Rochester, MN 55905
e-mail: lingle@mayo.edu

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



Research Fellowships

MOUNT SINAI
SCHOOL OF
MEDICINE

Division of Nephrology

Mount Sinai School of Medicine is a leader in medical research and education. We have fellowships, funded by NIH National Research Awards, available in the Division of Nephrology. Two research training positions are available July 1, 2000. Training will be under the direction of faculty members in one of the following areas: 1) molecular genetics and development; 2) immunology, virology and gene therapy; 3) cell cycle and signal transduction; 4) adhesion molecules and matrix; and 5) molecular basis of transport.

Applicants must have M.D. with residency training, Ph.D., or M.D./Ph.D. degrees. Government regulations require that candidates selected for the above positions be U.S. citizens or permanent residents. For consideration, send C.V. to: **Dr. Paul Klotman, Box 1243, Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574; Fax: 212-987-0389; E-mail: PKlotma@smtplink.mssm.edu** We are an equal opportunity employer fostering diversity in the workplace.



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

ALSAC - Danny Thomas, Founder

Postdoctoral Position Development and Molecular Biology

A postdoctoral position is immediately available to work in different aspects of pancreas development. Our research is mainly focused in the identification of genes and mechanisms that govern the differentiation and morphogenesis of the endocrine pancreatic cells. In particular, we investigate the role that homeobox-containing genes play in these processes (Nature 386:399-402, 1997; Mech. of Devel., 44:3-16, 1993). Our approaches include the analysis of transgenic and knockout mice, and the manipulation of embryonic pancreatic explants "in vitro". The position is ideal for someone with a biological background and laboratory experience, who has recently obtained a Ph.D. and/or M.D. and seeks to pursue training in developmental biology. Candidates with a strong background in molecular biology or mouse embryology should send their CV and the names of three references to:

**Dr. Beatriz Sosa-Pineda
Department of Genetics
St. Jude Children's Research Hospital
332 North Lauderdale
Memphis, TN 38105
901-495-2701
Fax: 901-526-2907**

EOE



Zyomyx, Inc. is a rapidly growing early-stage biotechnology company whose mission is to develop a novel protein-biochip platform technology facilitated by a highly integrated effort in microfabrication, advanced materials and protein biochemistry. We are seeking successful individuals for the following positions:

■ Research Scientist - Organic Thin Films/Self-assembled monolayers

Ph.D. in Physical Chemistry or Surface Chemistry with 3+ years of experience in the synthesis, analysis and spectroscopy of self-assembled monolayers and other ultrathin films on solid supports including silicon, metals, and metal oxides. Position involves FTIR, ellipsometry, contact angle and Brewster-angle microscopy, SEM, CV, XPS, AFM, STM, SPR, ToF-SIMS, HREELS, radiometry, and surface fluorescence.

■ Research Scientist - Supported Phospholipid Bilayers

Ph.D. in Physics, Physical Chemistry or Biophysics with 3+ years of experience in the field of planar supported lipid bilayer formation and characterization. Candidate should have strong instrumentation skills in microinterferometry, impedance spectroscopy and optical microscopy.

■ Research Scientist - Surface Chemistry/Intermolecular Forces

Ph.D. in Physical Chemistry with 3+ years of experience in Surface Chemistry with an emphasis on adsorption processes, intermolecular/interparticle and surface forces, aggregation phenomena and chemisorption. Excellent theoretical knowledge in these fields is required.

■ Research Scientist/Engineer - Laser Spectroscopy/Optical Sensors

Ph.D. or other advanced degree in Physics or Electrical Engineering with 6+ years of experience in one of the following areas: (i) non-linear optics (optical second-harmonic and sum-frequency generation (SHG/SFG) techniques), (ii) ellipsometry/Brewster-angle microscopy, (iii) optical waveguide laser spectroscopy, (iv) MEMS-based microoptics/optoelectronics.

■ Research Scientist - Protein Expression

Ph.D. in Biochemistry with 3+ years of experience in high-throughput protein purification. Strong practical knowledge in prokaryotic and eukaryotic expression systems and molecular cloning techniques is essential.

■ Research Scientist - Bioanalytical Assay Development

Ph.D. in Analytical or Physical Chemistry with 3+ years of experience in protein assay development. The position requires excellent theoretical knowledge in enzymology, analytical chemistry and hands-on experience in spectroscopic instrumentation.

■ Research Scientist - Mass Spectrometry/Proteomics

Ph.D. in Analytical Chemistry, Biochemistry, or a related discipline emphasizing mass spectrometry with focus on protein analysis. A minimum of three years experience in ESI-MS instrumentation is essential. The successful candidate will provide structural, analytical, and general problem solving support for Zyomyx' mass spectrometry efforts in proteomics and biochip development.

■ Research Scientist - Phage Display

Ph.D. with a minimum of 2 years experience in molecular biology. Working knowledge of *in vitro* transcription/translation, protein expression in bacteria or yeast, and phage display techniques is essential.

■ Microfabrication Engineer - Biochip Development

Advanced degree in Mechanical or Electrical Engineering, Materials Science or Applied Physics and a minimum of 5 years of experience in MEMS or mTAS applications. Candidate must have a solid background in microstructure technologies including laser machining, sputtering, evaporation, electroplating, plastic micromolding, normal and double-sided lithography, wet and dry etching including deep RIE of silicon.

■ Microfabrication Engineer - Microfluidics/MEMS

Advanced degree in Mechanical or Electrical Engineering or Materials Science with 5+ years of experience in fabrication and microengineering of miniaturized fluidic systems. Candidate must have a solid background in fluid dynamics, micromachining, micron-scale fluid phenomena and materials properties.

■ R&D Automation Engineer - Laboratory Automation/Robotics

Advanced degree in Electrical Engineering or Computer Science with 3+ years of hands-on experience in computer-driven robotics, electromechanical machinery design and motion-control circuitry. The successful candidate will be responsible for developing and implementing automated systems for materials processing, biochip production, and liquid-handling workstations for high-throughput biology.

Zyomyx, Inc.'s state-of-the-art facility is located in the San Francisco Bay Area. We provide a stimulating environment, competitive salary, equity participation, and excellent benefits. Successful candidates will be highly motivated individuals with excellent communication (verbal and written) and interpersonal skills. If you are interested, please send your resume with Job Title to: Zyomyx, Inc., Human Resources, 3911 Trust Way, Hayward, CA 94545. Fax: 510-784 2569.

Zyomyx, Inc. is an Equal Opportunity Employer.

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WE ARE A VITAL GLOBAL FORCE. A cogent synergy of science, technology and commercial minds focused on one thing—controlling disease. Our broad expertise with vaccines, blood testing and therapeutics enables us to target cancer, cardiovascular and infectious diseases and create powerful new opportunities for the future. We seek an experienced Scientist to join us at our convenient East Bay location in Emeryville.

SCIENTIST I ANALYTICAL COMPUTATIONAL CHEMIST

As a member of a leading-edge analytical group, you will be responsible for the creation, development and implementation of efficient algorithms for the in-depth analysis of small molecule and peptide data derived from LC/MS/MS and related techniques. In addition, you will use the peptide data to perform protein structure elucidation using a novel modeling technique.

This job requires a PhD in Computational Chemistry or a closely related field. Proven experience analyzing complex data sets is a must as is the ability to visualize and report the results. Excellent communication and team work skills are essential to this highly collaborative environment.

To join our global team, send your resume with salary requirements, indicating Job Code: 3868, to: Chiron Corporation, Human Resources, 4560 Horton Street, Emeryville, CA 94608. As an equal opportunity employer, Chiron honors diversity in every respect. www.chiron.com

CHIRON

INSECT PEST MANAGEMENT SCIENTIST/RESEARCH LEADER

The Southern Plains Agricultural Research Center, Agricultural Research Service, USDA, has an opening for a Research Leader to head a multidisciplinary team of research scientists focused on the development, evaluation, and integration of multiple approaches and technologies into systems for effective areawide management of row crop pest insects.

The person selected will head the Center's Areawide Pest Management Research Unit, which has a total staff of about 20 including 7 research scientists. Responsibilities and duties of the position include guiding the research programs and supervising the scientists of the Unit, recommending/implementing changes in the research programs of the Unit in consultation with higher managers, accounting for proper expenditure of funds assigned to the Unit, and overseeing cooperative research agreements with State Agricultural Experiment Stations and other partners. The person selected will in addition be expected to develop an active and productive research program consistent with the Unit mission. The Center itself is located immediately adjacent to the campus of Texas A&M University in College Station, Texas, on an attractive 60-acre site. The Areawide Pest Management Research Unit is one of 5 Units comprising the Center; total staffing at the Center exceeds 100 with more than 30 of the staff being research scientists. Candidates must be a U.S. citizen and must have appropriate education and research experience in one or more scientific disciplines related to the work of the Unit, including Entomology, Biology, Meteorology, and/or Agricultural Engineering. The person ultimately selected for the position will have documented: 1) knowledge of agricultural engineering, meteorology, basic biology, palynology, or entomology; 2) ability to devise and apply theoretical concepts of biology to solving complex and diverse problems related to areawide management of row crop insect pests; and 3) ability to design, plan, and conduct research and publish results in peer-reviewed journals related to areawide management of row crop insect pests. Salary will be commensurate with experience (\$67,298 to \$102,907).

For information about this position or for an application package, call Ms. Rhonda Korgor (409-260-9372). Applications in response to this advertisement must be marked ARS-X9S-9338 and must be postmarked by October 25, 1999. *USDA/ARS is an Equal Opportunity Employer.*

THE UNIVERSITY OF TEXAS - HOUSTON HEALTH SCIENCE CENTER



Medical School

Department of Microbiology & Molecular Genetics Seeks Assistant Professor

The Department of Microbiology & Molecular Genetics at The University of Texas Medical School at Houston, seeks an exceptional scientist for a tenure track position at the Assistant Professor level. The successful candidate should have a Ph.D. and/or M.D. and several years postdoctoral experience. Excellence in research is of greater significance than the particular area of research; however, areas of interest might include prokaryotic or lower eukaryotic molecular genetics, cell biology, biochemistry, genomics, pathogenesis or physiology. The successful candidate will join a department with strengths in the area of cell signaling, signal transduction and the molecular genetics of prokaryotes and lower eukaryotes involving a diversity of microbial systems. The successful candidate will receive a competitive salary and start-up package and will be expected to teach graduate students and medical students. The applicant should submit a curriculum vitae, the names of at least three references and a statement of their research goals and interests, including a description of how their research program reflects the future directions of microbiology. For full consideration, completed applications should be submitted by December 3, 1999.

Applications should be submitted to:

Samuel Kaplan, Ph.D.
Microbiology & Molecular Genetics
The University of Texas Medical School
P.O. Box 20708
Houston, TX 77225
(713) 500-5502
Fax: (713) 500-5499
E-mail: skaplan@utmmg.med.uth.tmc.edu
Web Address: www-mmig.med.uth.tmc.edu

The University of Texas Health Science Center-Houston is an Equal Opportunity Employer. Women and Minorities are encouraged to apply.



Assistant or Associate Professors

The Department of Pharmacology, University of Iowa invites applications for tenure-track faculty positions from highly qualified and creative scientists. Up to three highly promising individuals whose research addresses contemporary questions related to signaling by membrane-receptors, fundamental neuroscience, cancer biology, endocrinology or toxicology will be appointed. Successful applicants will be expected to maintain a dynamic extramurally supported research program, excel in teaching, and actively contribute to strong departmental and interdepartmental graduate programs. Excellent start-up packages will be made available to successful candidates.

Candidates with a Ph.D. and/or M.D., post-doctoral experience and an excellent record of research productivity and quality should submit **before 15 December, 1999** a curriculum vitae, summary of research accomplishments (including copies of key publications), description of future research plans, and the names of at least three references to:

Chair, Search Committee
Department of Pharmacology
College of Medicine
Bowen Science Building
The University of Iowa
Iowa City, IA 52242-1109

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

Faculty Position in Biophysics The Johns Hopkins University

The Thomas C. Jenkins Department of Biophysics is expanding and anticipates appointing an assistant professor with research interests in experimental or computational studies of macromolecules. Training emphasizing a quantitative approach to problems of biological interest is an important qualification.

Possible research areas include, but are not limited to: Macromolecular NMR; Membrane biophysics and proteins; Computer simulation of macromolecules or cells, or bioinformatics; and Biophysical chemistry of nucleic acids.

To apply, please send a CV, and a brief description of your research plans to:

Search Committee
T.C. Jenkins Department of Biophysics
Johns Hopkins University
3400 N. Charles Street
Baltimore, MD 21218-2685
410-516-7245

Candidates should arrange to have 3 letters of reference sent to the same address.

Additional information can be obtained from departmental chair Eaton Lattman (lattman@jhu.edu). Applications should be received by 30 November 1999.

Johns Hopkins is an equal opportunity/affirmative action employer, and actively encourages applications from under-represented minorities and women.

REAL NEEDS REAL OPPORTUNITIES

OSI Pharmaceuticals, Inc. is an integrated drug discovery company with a mission to discover and develop novel pharmaceutical products. OSI has become a leader in the field of small molecule drug discovery by combining automated high-throughput screening using industry-pioneering robotics with sophisticated molecular biology, biochemistry and cell biology.

TEAM LEADER

High Throughput Screening

We're looking for a detail-oriented professional to implement biological assays for automated high throughput screening. You will validate assay formats; troubleshoot assays; handle data analysis; and supervise junior technical staff; You will also effectively communicate with project teams from different disease areas regarding new target identification and follow-up screening leads as well as generate summary reports of all screening results. Ideal candidates must possess a Bachelor's degree or higher in the biological sciences and 2+ years' experience in a screening environment. An understanding of spectrophotometric, chemiluminescent and radiochemical microplate assays for drug screening is essential, along with working knowledge of MS Excel and databases. Tissue culture experience desirable.

INFORMATICS PROGRAMMERS

Utilizing advanced programming abilities and a team player attitude, you will develop Intranet applications to be used by scientists. The user-friendly applications created will search Oracle databases for chemical, biological and pharmaceutical information for the purpose of drug and knowledge discovery. Qualified candidates must have a Bachelor's degree and excellent programming skills in Java, C or C++. Pharmaceutical industry experience and/or knowledge of chemistry or biology are desirable. Familiarity with Oracle/SQL or Perl is a plus.

OSI Pharmaceuticals offers a superb benefits package, including 3 weeks vacation, stock options, 401(K) and opportunities for career development. Qualified candidates may send resume indicating position of interest, to: Director, Human Resources, OSI Pharmaceuticals, Inc., 106 Charles Lindbergh Boulevard, Uniondale, NY 11553; FAX: (516) 222-0114; e-mail: employment@osip.com. Equal Opportunity Employer M/F/D/V.



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ANNOUNCEMENT



FUNDING AVAILABLE

CaP CURE, the Association for the Cure of Cancer of the Prostate, is soliciting proposals for its 1999/2000 funding year. The organization's goal is to find a cure for advanced prostate cancer.

Applications are competitive and accepted from individuals with or without institutional affiliation. Awards range from \$50,000 - \$250,000 for the year. Applications (3-5 pages) can be for clinical investigations, basic research or a combination and must be relevant to the treatment of advanced prostate cancer. We encourage interdisciplinary collaborations between basic scientists and clinicians. (For-profit companies are not eligible.) Applications will be accepted August 15, 1999 through October 30, 1999. Notification of awards is expected by December 31, 1999.

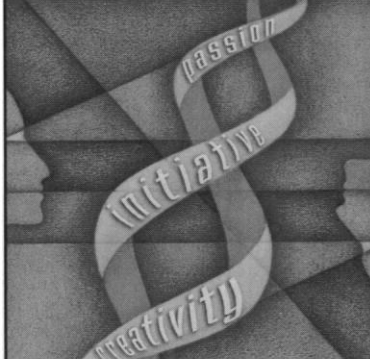
For consideration, request application guidelines:

CaP CURE

1250 Fourth Street, Suite 360
Santa Monica, CA 90401

Phone: (310) 458-2873 Fax: (310) 458-8074
(800) 757-2873 E-mail: capcure@capcure.org

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We seek a strong team member to join our Cell Line Development Group. This individual will coordinate laboratory efforts to develop new technologies for recombinant mammalian cell line development, and will have the opportunity to develop an active research program using genomic/proteomic tools to create new strategies for process development and bioengineering of host-cells. The candidate should have a PhD in Molecular or Cellular Biology or Bioengineering and 0-4 years of post-doctoral experience. Excellent communications skills and the ability to work within a multi-disciplinary team are essential to success in this highly collaborative role.

We offer progressive benefits in the heart of the SF Biotech Bay. Send your resume, indicating Job Code, to: Genentech, Inc., Human Resources, PO Box 1950, South San Francisco, CA 94083-1950. Please use plain type-faces. You may email your resume, indicating Job Code SCI1020, to jobs@gene.com (ASCII files only with a maximum line width of 76 characters). We cannot accept faxed resumes. Genentech is an Equal Opportunity Employer.

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**St. Jude Children's
Research Hospital**
ALSAC • Danny Thomas, Founder

Postdoctoral Position in the Molecular Basis of Parainfluenza Virus Pathogenesis

A postdoctoral position is available to study the molecular events involved in the replication, assembly, and host range of paramyxoviruses. Presently the main focus of the work concerns (1) the molecular interactions in virus assembly that permit virus budding; (2) the molecular basis of paramyxovirus host range (species specific transmission) and pathogenesis; (3) structure/function studies of the paramyxovirus receptor binding protein, the hemagglutinin-neuraminidase (HN) and its role in virus entry and immunity. Our recent solution of the three-dimensional structure of HN and the development and application of a parainfluenza virus reverse genetics system will facilitate future studies.

This National Institute of Health funded postdoctoral position would be suited to recent Ph.D., D.V.M., or M.D. with microbiology, molecular biology, or infectious disease background. This position will provide excellent training for someone interested in obtaining experience in current techniques in molecular virology and viral pathogenesis.

Support facilities at this institution are exceptional, and the research environment is highly interactive. This position is available immediately, and interested candidates should send a curriculum vitae and must arrange to have three letters of recommendation sent to Allen Portner, Ph.D., Department of Virology and Molecular Biology, St. Jude Children's Hospital, 332 North Lauderdale, Memphis, TN 38105-2794. Interested parties can contact by e-mail at allen.portner@stjude.org. Equal opportunity employer



**St. Jude Children's
Research Hospital**
ALSAC • Danny Thomas, Founder

POSTDOCTORAL POSITION

POSTDOCTORAL POSITION available in the Program in Genetic Immuno-deficiencies at St. Jude Children's Research Hospital to study the events that control the pro-B cell to pre-B cell transition in the human. Ongoing projects include the characterization of patients with defects in B cell development, analysis of factors that influence the assembly of the pre-B cell receptor complex and identification of mechanisms that regulate expansion of early B cell precursors. The applicant should have a Ph.D. or M.D./Ph.D. and experience in molecular biology and/or tissue culture. Please send curriculum vitae, statement of research interests, and three letters of reference to Dr. M. E. Conley, Department of Immunology, St. Jude Children's Research Hospital, 332 N. Lauderdale, Memphis TN 38105. eoe



**UNIVERSITY OF
WISCONSIN
MADISON**

150 YEARS
Science and Research

Assistant Professor

The Laboratory of Molecular Biology, a research institute at the University of Wisconsin-Madison, is seeking a new faculty member at the assistant professor level. This hire is a part of the University's Biophotonics Initiative, and candidates should be facile with the use of biophotonics techniques in their studies.

Preference will be given to candidates who exhibit excellence in research accomplishments, which could be in the

general areas of molecular, cell or developmental biology, preferably using one of the genetically tractable model systems. It is anticipated that the new faculty member would benefit from interactions with other members of the Biophotonics Initiative.

The tenure faculty home for this position would be identified according to the candidate's background and interests.

Applications, including a CV, a statement of research interests and experience, a brief research proposal, and three letters of recommendation should be sent to: **Ms. Pat Hanson, Laboratory of Molecular Biology, University of Wisconsin-Madison, 1525 Linden Drive, Madison, WI 53706**. Closing date for applications is November 1, 1999. Specific inquiries concerning the search may be sent to Dr. John White at jwhite@facstaff.wisc.edu

The University of Wisconsin-Madison is an Equal Opportunity and Affirmative Action Employer. Women and minorities are encouraged to apply.

Unless confidentiality is requested in writing, information regarding applicants must be released upon request. Finalists cannot be guaranteed confidentiality.

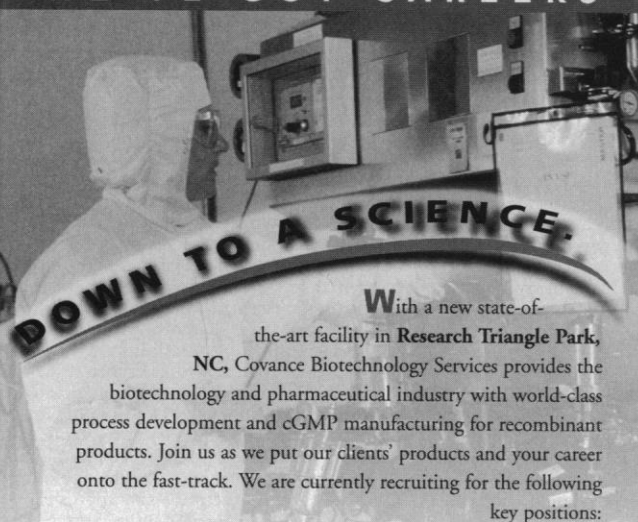
BIOGEOCHEMISTRY THREE TENURE-TRACK FACULTY POSITIONS

The Department of Chemistry and Biochemistry, Old Dominion University invites applications from outstanding candidates in organic, inorganic, and/or biochemical biogeochemistry to support a new and unique initiative in Biogeochemistry. Successful candidates will have the exciting opportunity to participate in development of a new Center for Biogeochemistry. Opportunities exist for research and teaching collaborations with faculty in the Departments of: Ocean, Earth, and Atmospheric Sciences; Biological Sciences, and Civil and Environmental Engineering. Positions available 1 Aug. 2000. Required qualifications include: a Ph.D. in Chemistry, Biochemistry or a Biogeochemistry-related field from an accredited university; a record of productivity in biogeochemically-related research; the ability to conduct a vigorous, externally-funded research program and to support and supervise both graduate and undergraduate student research; and a strong commitment to teaching chemistry and biogeochemistry at the graduate and undergraduate levels. For at least one of the positions we seek a biogeochemist who can teach both undergraduate and graduate-level organic chemistry. Previous teaching experience and postdoctoral experience are preferred.

The Department of Chemistry and Biochemistry presently offers B.S. degrees in both Chemistry and Biochemistry and the M.S. degree in Chemistry, and has biological chemistry and clinical chemistry tracks in the Biomedical Sciences Ph.D. program. Additionally, opportunities exist for the successful candidates to supervise students in M.S. and Ph.D. programs in Oceanography, and the Ph.D. program in Ecological Sciences. Prospective applicants may visit our department website <http://web.odu.edu/webroot/orgs/sci/colsciences.nsf/pages/chembiochem>

Applicants should submit: 1) curriculum vitae; 2) statement indicating the position for which they are applying; 3) statement addressing the required and preferred qualifications listed above; 4) statements detailing their teaching and research interests and experience; and 5) names, phone numbers, and addresses (both email and regular postal) of three references to: Biogeochemistry Search Committee, Department of Chemistry and Biochemistry, Old Dominion University, Norfolk, VA 23529-0126 (FAX: 757-683-4628). For further information contact Dr. John R. Donat (Tel: 757-683-4098; email: JDONAT@odu.edu). Review of applications will begin 1 November 1999 and will continue until the position is filled. Old Dominion University is an Equal Opportunity/Affirmative Action Institution and requires compliance with the Immigration Reform and Control Act of 1986.

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With a new state-of-the-art facility in Research Triangle Park, NC, Covance Biotechnology Services provides the biotechnology and pharmaceutical industry with world-class process development and cGMP manufacturing for recombinant products. Join us as we put our clients' products and your career onto the fast-track. We are currently recruiting for the following key positions:

■ QC SCIENTIST/SUPERVISOR, ANALYTICAL

In this position, you will be responsible for the qualification and execution of analytical methods on instruments including HPLC, CE, FT-IR, UV/Vis, and TOC. A Master's degree (Ph.D. preferred) in Chemistry or Biochemistry and 5+ years of chromatography experience and 3+ years of QC experience in a cGMP environment is preferred. **Job Code: 99-147**

■ QC SCIENTIST, MICROBIOLOGY

In this position, you will be responsible for technical transfer, set-up and qualification of methods to support QC testing of cGMP manufacturing materials. Recommended assay experience should include bioburden, microbial limit, microbial identification (including automated techniques), aseptic technique, environmental monitoring, growth promotion, evaluation of biological indicators, non-host contamination and media hold sterility. Prior experience with method validation, equipment qualification, written test procedures and technical reports helpful. A Master's degree in Microbiology or related field with 5+ years of experience in a cGMP environment preferred. **Job Code: 99-171**

■ QC SCIENTIST, BIOCHEMISTRY

In this position, you will be responsible for performing testing to support all in-process holds, manufacturing and process development. This will include LAL, pH, UV, HPLC, ELISA, and bioburden. A Master's degree in Biological or Physical Sciences and 5+ years of experience in a cGMP environment. ELISA and/or enzymatic assays experience preferred. **Job Code: 99-211**

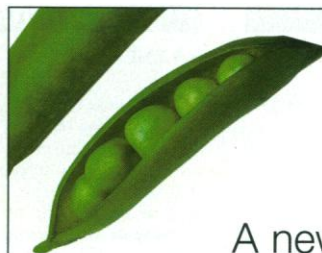
Please send resume to: **Covance Biotechnology Services, Director—Human Resources, Job Code: _____, 3000 Weston Parkway, Cary, NC 27513; FAX: (919) 678-0555; E-mail: biotechcareers@covancebio.com** Only those selected for further consideration will be contacted. **PRINCIPALS ONLY.** Covance is an equal opportunity employer.

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In addition to being at the leading edge of biotech, you'll find the quality of life you've been searching for. Rated as the #1 place to live by *Money* magazine, the Raleigh-Durham area boasts amenities that are truly above and beyond the ordinary. From educational to cultural and recreational. Join our innovative team in one of the following dynamic positions:

Laboratory Leader

Qualified candidates will have a PhD in biological or agricultural sciences with experience in molecular biology (Preferably plant molecular biology.). You must have 3+ years of post-doctoral experience and a strong background in oil biosynthesis, plant/pathogen interactions, stress tolerance or enabling technologies. Excellent interpersonal, leadership and communication skills are a must.

Postdoctoral Scientist

Ideal candidates will have a PhD in biological or agricultural sciences. You must have experience in at least one of the following: oil biosynthesis, plant/pathogen interactions, stress tolerance or enabling technologies. Excellent teamwork, creativity and communication skills are a must.

Research Associate

Successful candidates will have a BS in biological or agricultural science with 4+ years of related experience or an MS in biological or agricultural science and 2+ years of related experience. You must have working knowledge in a wide range of molecular and biochemical techniques (i.e. cloning, PCR, plant transformation, and protein analysis). Knowledge of DNA-analysis computer programs is desirable.

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BASF



POSITIONS OPEN

FACULTY POSITIONS RICE UNIVERSITY

Department of Biochemistry and Cell Biology

Applications are invited for tenure-track faculty positions in molecular biosciences. All research areas will be considered but special consideration will be given to applicants whose research is in the areas of cell and developmental biology of animal, microbial, or plant systems or bioinformatics. Applicants with a focus on integrated biological systems would be of particular interest. Two positions will be available this year with several additional positions available within two to three years. Candidates must have completed a Doctoral degree, have postdoctoral training, exhibit outstanding communication and leadership skills, and have a record indicating exceptional potential in research and teaching. The successful candidate will be expected to develop and maintain a vigorous research program supported by extramural funding and participate in graduate and undergraduate teaching. Emphasis in recruiting will be at the **ASSISTANT PROFESSOR** level, but highly qualified candidates at other levels are encouraged to apply. Review of submitted applications will commence on November 1, 1999, and continue until the positions are filled. Please send letter of application, curriculum vitae, summary of past research and statement of future research plans, and arrange for four letters of reference to be sent to:

Faculty Search Committee
Department of Biochemistry and Cell Biology
Rice University, MS-140
P.O. Box 1892
Houston, TX 77251-1892

Rice University is an Equal Opportunity/Affirmative Action Employer; women and minority candidates are especially encouraged to apply.

FACULTY POSITION DEPARTMENT OF BIOCHEMISTRY

Two tenure-track faculty positions are available in the Department of Biochemistry at Baylor College of Medicine. As part of the Texas Medical Center, Baylor is a focal point for outstanding basic research and clinical science and actively encourages interinstitutional and cross-departmental collaboration. The Department of Biochemistry maintains research strengths in molecular genetics, developmental biology, cell biology, signal transduction, and structural biology. We are seeking outstanding candidates in all areas of biology. For one position we are especially interested in individuals pursuing mammalian development or disease mechanisms. Candidates should send their curriculum vitae, preprints and reprints of significant work, a statement of present and future research activities, and arrange to have three letters of recommendation forwarded by December 1, 1999, to: **Stephen J. Elledge, Ph.D., Search Committee Chair, c/o Mary Jane Perez, Department of Biochemistry, MS 357A, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030-3498.** *Baylor College of Medicine is an Equal Opportunity/Affirmative Action/Equal Access Employer.*

ASSISTANT PROFESSOR. Dynamic Biology Department has two tenure-track positions at the Assistant Professor level to begin August 14, 2000. Qualifications include a Ph.D., one year of postdoctoral experience, and a demonstrated commitment to undergraduate teaching and research. Preference will be given to applicants with teaching and research interests in developmental biology, cell biology, microbiology, or ecology, and whose research interests complement those of current faculty. More information is available at website: <http://www.bradley.edu/personnel/>. For full consideration, send letter of interest, curriculum vitae, transcripts, statements of teaching and research interests, and have three letters of reference sent by October 15, 1999, to: **Dr. Kelly McConaughay, Department of Biology, Bradley University, Peoria, IL 61625.** Applicant screening will begin October 15, 1999, and will continue until the position is filled. *Bradley University is an Equal Employment Opportunity/Affirmative Action Employer, and encourages applications from underrepresented groups.*

POSITIONS OPEN

TENURE-TRACK FACULTY POSITIONS IN BIOLOGY

As part of a University-wide expansion in genomics and integrative biology, the Department of Biology at Texas A&M University invites applications to fill two tenure-track faculty positions. We seek outstanding individuals addressing fundamental questions in any area of biology. Some preference will be given to individuals using genomics-based approaches in their research or who add to existing strengths in microbiology, comparative or functional genomics, neurobiology, molecular evolution, plant molecular biology, biological clocks, and developmental biology in model systems. However, individuals taking novel approaches in other areas of biology are encouraged to apply.

Successful applicants will be expected to establish a vigorous research program and to take an active role in the undergraduate and graduate teaching programs. It is likely that these positions will be filled at the Assistant Professor level; however, exceptional candidates will be considered for appointment at higher academic ranks. Applicants should submit a curriculum vitae, statement of research and teaching, and reprints of significant publications and should arrange to have three letters of reference sent to: **Biology Search Committee, Department of Biology, MS 3258, Texas A&M University, College Station, TX 77843.** Information about our department can be found at website: www.bio.tamu.edu. Review of applications will begin November 5, 1999, and will continue until the positions are filled. *Women and minorities are encouraged to apply. Texas A&M University is an Equal Opportunity Employer.*

FACULTY POSITION MICROBIOLOGY NORTHEASTERN UNIVERSITY

The Department of Biology invites applications for a tenure-track **ASSISTANT PROFESSORSHIP** available September 2000 (contingent on funding). Qualifications include a Ph.D. and postdoctoral experience. The successful candidate will be expected to develop an externally funded research program in an area that complements and supplements our current research strengths in microbiology. Additionally, the individual will be expected to participate enthusiastically in undergraduate and graduate teaching and have a demonstrated ability to teach. Our website: www.dac.neu.edu/biology/ will provide information about the department.

Applicants should send a curriculum vitae, a statement of research and teaching interests, and should arrange to have at least four letters of reference forwarded independently to: **Biology Faculty Search Committee, 414 Mugar Building, Northeastern University, Boston, MA 02115.** Review of applications will begin on November 15, 1999. *Northeastern is an Equal Opportunity/Affirmative Action/Title IX University. Women and minority candidates are especially encouraged to apply.*

BIOLOGIST SAINT MICHAEL'S COLLEGE

ASSISTANT PROFESSOR tenure-track position. September 2000. Teach upper-level genetics/microbiology courses; team-teach general biology course for majors; teach non-majors course with laboratory. Teaching load 21 hours per year. Also maintain research program suitable for undergraduate participation, and provide general academic and pre-health advising. Requires Ph.D. and experience in molecular methodologies; teaching and postdoctoral experience preferred.

Send curriculum vitae; undergraduate/graduate transcripts; statements of teaching experience, interests, and philosophy; research plans and objectives; and three letters of reference to: **Dr. D. Facey, c/o Office of Human Resources, Saint Michael's College, Winooski Park, VT 05439.** Review of applications begins October 20, 1999. More information, website: <http://academics.smcvt.edu/biology>. *Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

FACULTY POSITIONS

The Department of Biological Sciences at Vanderbilt University, which is being formed through the integration of the Department of Biology and the Department of Molecular Biology, seeks candidates to fill two faculty positions. The position in molecular genetics is rank-open, tenured or tenure-track. We are especially interested in candidates with research interests in replication, repair, recombination, RNA processing, cell cycle regulation, translation, or protein targeting. The position in neurobiology is a tenure-track position at the level of Assistant Professor. We are particularly interested in candidates working on cellular or molecular aspects of neurobiology, such as behavior, biological rhythms, learning and memory, or signal transduction. The central criteria for both positions are excellence in research and the ability to teach effectively at undergraduate and graduate levels. For information about the Department and Vanderbilt, visit our website: <http://www.vanderbilt.edu>. Applicants should send a letter of application together with a curriculum vitae and a statement of current and future research interests to the appropriate Search Committee: **Molecular Genetics Search Committee or Neurobiology Search Committee, Vanderbilt University, Box 1820 Station B, Nashville, TN 37235 USA.** Junior faculty applicants should also arrange for three letters of recommendation to be sent to the same address. Senior faculty applicants (molecular genetics search) should provide a list of references who would be willing to provide letters on request. Review of applications will begin in mid-October 1999 and will continue until the positions are filled. *Vanderbilt University is an Affirmative Action/Equal Opportunity Employer. Women and minority candidates are especially encouraged to apply.*

FACULTY POSITIONS IN PHARMACOLOGY AND MEDICINAL CHEMISTRY Wilkes University School of Pharmacy

Applications are invited for two nine-month tenure-track faculty positions at the **ASSISTANT/ASSOCIATE** level. Successful candidates will participate in the training of professional pharmacy students as members of the team of scientists and clinicians responsible for the four-semester sequence of courses in pharmacotherapy. They will be asked to develop professional elective(s) and a modest research program. Minimum requirements are a Ph.D. in either pharmacology or medicinal chemistry or a closely related discipline and the ability to communicate clearly and effectively. The Pharmacologist should be expert in neuropharmacology and comfortable teaching physiology. Application materials should include a letter of interest, a full curriculum vitae, and the names, addresses, and telephone numbers of three individuals who may be contacted for a confidential reference. Complete applications should be sent to: **Dr. Arthur H. Kibbe, Chair, Department of Pharmaceutical Sciences, School of Pharmacy, Wilkes University, Wilkes-Barre, PA 18766.** E-mail: kibbe@wilkes.edu.

Wilkes University is an Equal Opportunity/Affirmative Action Employer.

UNIVERSITY OF PENNSYLVANIA CENTER FOR SLEEP

The Center for Sleep is accepting applications for a **RESEARCH ASSISTANT PROFESSOR**, a non-tenure-track faculty position at the University of Pennsylvania to study molecular mechanisms of sleepiness. Candidates should have postdoctoral research experience utilizing molecular biological techniques. Experience with *in situ* hybridization protocols helpful. Previous experience in sleep and circadian research an advantage but not essential. Interested candidates should submit a curriculum vitae, a statement of research interests, and three letters of reference to: **Allan Pack, M.D., Ph.D., Director, Center for Sleep, 991 Maloney Building/HUP, 3600 Spruce Street, Philadelphia, PA 19104-4283.**

THE SCHOOL OF ENGINEERING AT THE UNIVERSITY OF CALIFORNIA, IRVINE invites applications for five faculty positions in **BIOMEDICAL ENGINEERING**. These five positions are part of a new *Development Award* from the Whitaker Foundation, and represent the first phase of new faculty that UCI will be recruiting in biomedical engineering over the next four years.

Two positions are at the Associate/Full Professor rank, and the remaining three positions are at the Assistant Professor rank. One of the senior positions will be to chair the planned new Department of Biomedical Engineering (see separate ad). The successful candidate for the second senior position will have an established track record of a rigorous extramurally-funded research program in computational science technologies related specifically to biomedical problems. Research areas that are of particular interest include novel approaches to:

- biomedical image/signal analysis, devices, processing and understanding
- parallel and/or distributed biomedical computational systems
- biomedical information management systems
- quantitative optical image analysis
- computational neuroscience
- quantitative modeling of biological systems

The successful candidates for the junior-level positions will have a Ph.D. in Mechanical, Computer, Electrical, Chemical, or Biomedical Engineering, or closely related areas, and will be expected to develop a rigorous extramurally-funded research program. Research areas that are of particular interest include:

- biomedical microelectromechanical systems
- biomedical nanoscale microscopy
- microchip-based biomolecular genomic or proteomic systems
- cellular biomechanics
- biomedical photonics

All candidates will initially be hired in the Biomedical Engineering Program within the School of Engineering, but will move to the planned Department of Biomedical Engineering in the near future. In addition, the candidates will participate in the teaching and research activities of both undergraduate and graduate programs in biomedical engineering. The University of California, Irvine is situated in Orange County's rapidly growing high technology sector that includes more than 150 biomedical companies.

For full consideration, candidates should send their curriculum vitae, a brief (no more than 2 pages) description of current and future research and teaching interests, and at least three letters of reference by January 1, 2000 to:

Search Committee Chair, Biomedical Engineering
Center for Biomedical Engineering
204 Rockwell Engineering Center
School of Engineering
University of California, Irvine
Irvine, CA 92697-2700

Submission via electronic mail can be made to: lrhbaum@uci.edu. You can visit our website at: <http://socweb.eng.uci.edu/bme/>

The University of California is an Equal Opportunity Employer committed to excellence through diversity.

POSTDOCTORAL RESEARCH OPPORTUNITIES

Program in Molecular Biology and Genetics
Department of Biological Sciences
The University of Delaware

The Department of Biological Sciences seeks applicants for postdoctoral research in molecular, cell and developmental biology and genetics. The department has undergone a major expansion including the creation of state-of-the-art core facilities for molecular biology, confocal microscopy, polyclonal/monoclonal antibody production and the creation of transgenic/knockout mouse models. The university is located between Baltimore and Philadelphia on the 195 corridor. Competitive financial compensation and benefits are provided. Opportunities are available with the following faculty:

Daniel Carson	extracellular matrix/embryo interactions at implantation
Patricia DeLeon	molecular basis of spermatogenesis/sperm function
Melinda Duncan	transcriptional control of eye development
Mary C. Farach-Carson	bone remodeling/tissue engineering
Norman Karin	calcium signaling
Eric Kmiec	DNA repair mechanisms/gene therapy
George Molloy	transcription during rat brain development
Uhas Naik	integrin signaling/cell adhesion
Daniel Simmons	eukaryotic DNA replication

Applicants should submit a curriculum vitae and names of three references to:

Melinda K. Duncan, Ph.D.
Chair, Postdoctoral Training Committee
Department of Biological Sciences
The University of Delaware
Newark, DE 19716

Please visit the Department of Biological Sciences Web Site at: www.udel.edu/bio/ for further information on the research programs of the faculty. Applicants are encouraged to identify which faculty research programs are of particular interest in their cover letter.

The University of Delaware is an equal opportunity employer



TENURE-TRACK POSITION AT NIH Molecular Mechanisms of Protein Trafficking

A tenure-track position is available in the Cell Biology and Metabolism Branch (CBMB), National Institute of Child Health and Human Development, to develop an independent research program on the molecular mechanisms of protein trafficking or degradation, preferably in connection to human disease. Candidates must have M.D. or Ph.D degree, and a proven record of productivity in the subject area of the search. The CBMB has a tradition of excellence in various areas of cell biology research. Other groups at the CBMB are headed by Juan Bonifacio, Richard Klausner, Mary Lilly, Jennifer Lippincott-Schwartz, Tracey Roualt, Gisela Storz and David Wassarman. The recruitment package includes generous start-up and operational funds, three post-doctoral or technical positions, and renovated lab space. Applicants should submit C.V., bibliography, a two-page statement of research interests, and three letters of recommendation to: Chair, CBMB Search Committee, Bldg.18T, Rm.101, NIH, 18 Library Drive, MSC 5430, Bethesda, MD 20892-5430. Applications must be postmarked by **November 15, 1999.**

NIH is an Equal Opportunity Employer

POSITIONS OPEN

MARINE BIOLOGY FACULTY

The Department of Biology invites applications for a tenure-track position at the rank of **ASSISTANT PROFESSOR** to begin in the fall 2000 semester. We are searching for a broadly trained Marine Biologist to participate in both the biology and environmental science programs.

A Ph.D., postdoctoral experience, and evidence of strong teaching skills are required. The successful applicant will establish and maintain an active research program involving undergraduate and Master's-level graduate students and provide departmental and university service. Major teaching responsibilities include invertebrate zoology, marine biology, and oceanography.

Review of applications will begin on December 15, 1999, and continue until the position is filled. Send curriculum vitae, statements of teaching philosophy and research interests, and arrange to have three letters sent directly from referees, to: **Dr. Richard H. Fox, Chair, Department of Biology, American University, Washington, DC 20016-8007.** Position is subject to budgetary approval.

American University is an Affirmative Action/Equal Opportunity Employer, committed to a diverse faculty, staff, and student body. Women and minority candidates are strongly encouraged to apply.

BIOCHEMISTRY FACULTY POSITIONS

Biological sciences has recently been selected as priority area at Auburn University. Consequently, two **TENURE-TRACK POSITIONS** in biochemistry in the Department of Chemistry are available starting in the fall of 2000. Although the biochemical research areas are open, successful candidates will have strong chemical orientation; molecular structural studies of proteins and macromolecules are of particular interest. Candidates will be expected to develop vigorous externally funded research and teaching programs primarily in the areas of biochemistry/metabolism at undergraduate and graduate levels. A Ph.D. in chemistry or biochemistry and one year of postdoctoral training required. Applicants should submit a curriculum vitae, statements of their research plans and teaching philosophy, and have three letters of reference sent to: **J. H. Hargis, Department of Chemistry, Auburn University, AL 36849.** Review of applications will begin November 1, 1999, and continue until a candidate is selected. *Auburn University is an Affirmative Action/Equal Opportunity Employer. Women and minorities are invited to apply.*

California Institute of Technology invites applications for a tenure-track position as **ASSISTANT PROFESSOR** of chemical physics/physical chemistry, including multidisciplinary areas with experimental and/or theoretical emphasis. The initial appointment is four years. Outstanding candidates who have completed their Ph.D. and have a strong commitment to research and teaching excellence are encouraged to apply. Submit by November 15, 1999, curriculum vitae, publication list, a concise description of proposed research, and three letters of recommendation to: **Professor Ahmed Zewail, Chair, Faculty Search Committee, Arthur Amos Noyes Laboratory of Chemical Physics, 127-72, California Institute of Technology, Pasadena, CA 91125.** *The California Institute of Technology is an Equal Opportunity/Affirmative Action Employer. Women, minorities, veterans, and disabled persons are encouraged to apply.*

The Department of Ophthalmology at the University of Alabama at Birmingham (UAB) School of Medicine invites applications for a faculty position at the rank of **ASSISTANT PROFESSOR**. This is a non-tenure-track position. Successful candidates are expected to conduct productive independent research programs dealing with psychophysical testing of vision. Send curriculum vitae and statement of research interests to: **Lanning B. Kline, M.D., Chairman, University of Alabama Birmingham, Department of Ophthalmology, 700 South 18th Street, Suite 601, Birmingham, AL 35233.** *UAB is an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

FACULTY POSITION HIV VIROLOGY/IMMUNOLOGY UNIVERSITY OF PITTSBURGH

The Department of Infectious Diseases and Microbiology of the Graduate School of Public Health, University of Pittsburgh, is seeking outstanding applicants for tenure-track positions as **ASSISTANT/ASSOCIATE PROFESSORS** in the areas of the molecular biology and immunology of HIV. The Department is committed to continued development of a strong multidisciplinary program wherein molecular biology, immunology, and the epidemiology of viral disease are integrated with ongoing clinical, natural history, and vaccine studies. Candidates should have a Ph.D., M.D., or equivalent, and have sufficient experience to establish a funded independent research program that integrates basic virology and/or immunology with clinical medicine and public health. Salary and starting date are negotiable. Send curriculum vitae and names of three references to: **Charles R. Rinaldo, Jr., Ph.D., Chairman, Infectious Diseases and Microbiology Search Committee, A427 Crabtree Hall, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA 15261. Telephone: 412-624-1637; FAX: 412-624-4953; e-mail: rinaldo+@pitt.edu.** To ensure full consideration of all applicants, applications will be reviewed until the positions are filled. Applicants for these positions should refer to job numbers 009609/009610. *The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer.*

FACULTY POSITION IN COMPARATIVE PHYSIOLOGY THE UNIVERSITY OF FLORIDA

The Department of Zoology at the University of Florida invites applications for a tenure-track **ASSISTANT PROFESSOR** position in comparative physiology beginning August 2000. We seek an individual who studies animal function within ecological or evolutionary contexts, and whose research and teaching will complement expanding departmental programs in ecology and evolutionary biology. We expect this individual to develop an internationally recognized, externally funded research program and to teach undergraduate and graduate courses, including animal physiology.

Please submit a curriculum vitae, statements of research and teaching interests, representative reprints, and have three letters of recommendation sent to: **Physiology Search Committee, Dr. Harvey B. Lillywhite, Department of Zoology, P.O. Box 118525, University of Florida, Gainesville, FL 32611-8525.** Applications must be received by October 29, 1999. Further details are available at **website: <http://www.zoo.ufl.edu>.** *The University of Florida is an Equal Opportunity Employer, and we encourage applications from minorities and women.*

CELL/MOLECULAR BIOLOGIST

The Department of Zoology, University of Oklahoma, has a tenure-track **ASSISTANT PROFESSOR** position beginning in the fall of 2000 for an individual addressing fundamental questions in molecular, cellular, or developmental biology. Teaching responsibilities will be one course per semester, including undergraduate and graduate courses in cell biology, and periodic rotation through other zoology courses, dependent on expertise. Candidates must have Ph.D. with proven record of good teaching and research abilities (demonstrated by publications). Postdoctoral experience and a commitment to undergraduate teaching preferred. More information is available at **website: <http://www.ou.edu/cas/zoology/>.** Screening begins 31 October 1999 and will continue until position is filled. Send curriculum vitae, four letters of recommendation, reprints, summary of teaching experience, and description of research interests to: **James N. Thompson, Jr., Chair, Department of Zoology, University of Oklahoma, Norman, OK 73019.** *An Equal Opportunity/Affirmative Action Employer. OU has a policy of being responsive to the needs of dual-career couples.*

POSITIONS OPEN

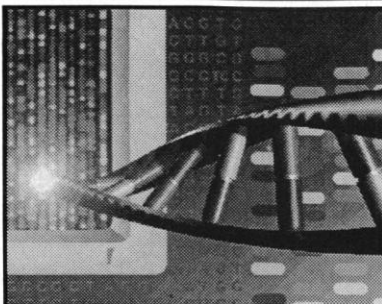
Applications are invited for a newly created **TENURE-TRACK FACULTY POSITION** responsible for the overall planning, development, and coordination of research activities for the Center for Minimally Invasive Surgery at The Ohio State University College of Medicine. The successful candidate will have the opportunity to interact with numerous active research groups on campus and have access to a large pool of talented graduate students and Research Fellows. Outstanding candidates will be offered office and laboratory space, a Technician, and start-up funds. Columbus has been ranked by *Newsweek* as one of the country's best cities to live and work. The candidate should have the ability to administer and foster interdisciplinary research endeavors with both basic and clinical scientists. The successful candidate will be expected to develop an independent research program that will attract funding from both the private and public sector, and a commitment to excellence in educating graduate and medical students. Candidates should have an M.D. or Ph.D. Applicants should submit a curriculum vitae, selected reprints, statement of research plans, and arrange to have three letters of reference sent to: **W. Scott Melvin, M.D., Director, Center for Minimally Invasive Surgery, The Ohio State University, 410 West Tenth Avenue, Columbus, OH 43210.**

FACULTY POSITIONS IN PHARMACOLOGY AND TOXICOLOGY

The Department of Pharmacology and Toxicology invites applications for two faculty positions at the **ASSISTANT or ASSOCIATE PROFESSOR** level. All applicants must have a Ph.D. or M.D. with postdoctoral training; candidates for the Associate Professor position must also have a demonstrated ability to maintain extramural funding. One position is for a Toxicologist who uses molecular genetic approaches to address toxicity mechanisms. Opportunities are available for collaborations with Triservices Toxicology at Wright Patterson Air Force Base. The second position is for candidates to enhance our current strengths in neuroscience and cardiovascular research. Competitive salary and start-up packages are available. Review of applications will begin on November 1, 1999, and continue until the positions are filled. Send curriculum vitae, a description of research interests, and the names and addresses of three references to: **Mariana Morris, Ph.D., Professor and Chair or Robert Grubbs, Ph.D., Department of Pharmacology and Toxicology, Wright State University School of Medicine, P.O. Box 927, Dayton, OH 45401-0927.** *WSU is an Affirmative Action Equal Opportunity Employer.*

The Biology Department of Boston University invites applications for a tenure-track **ASSISTANT or ASSOCIATE PROFESSOR** in cell and molecular biology. The successful applicant will be expected to develop an externally funded research program and participate in teaching at undergraduate and graduate levels. We have special interest in applicants whose research uses model systems such as transgenic mice, zebrafish, or *Drosophila* to study molecular and cellular aspects of development and differentiation. Send curriculum vitae, brief description of research interests, and three letters of reference by December 1, 1999, to: **Dr. Ulla Hansen, Cell and Molecular Biology Search Committee, Biology Department, Boston University, 5 Cunningham Street, Boston, MA 02215.** *An Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION available to study mechanisms of DNA recombination and repair in mammalian cells with a focus on understanding the origin of genomic instability in cancer cells. Experience in molecular biology required. Send curriculum vitae with bibliography, description of research experience, and names, addresses, and telephone numbers of three references to: **Dr. Alan S. Waldman, Department of Biological Sciences, Coker Life Sciences Building, University of South Carolina, Columbia, SC 29208.** E-mail: awaldman@sc.edu.



IMPACT THE WORLD AROUND YOU!

At PE Biosystems, we're making some of the biggest breakthroughs in science happen by creating products and instruments that change the way researchers identify and analyze the building blocks of life. In just the last year, genes for breast cancer, skin cancer, Alzheimer's disease and hypertension have been identified by dedicated professionals using PE Biosystems instrumentation, reagents and software. We currently seek a talented professional to join us at our headquarters on the San Francisco Peninsula.

BUSINESS DEVELOPMENT DIRECTOR

You will drive business development activities through strategic partnerships, such as OEM structures, strategic alliances, equity investments, and acquisitions. This will include developing and presenting proposals; understanding and performing financial modeling; negotiating terms; structuring contracts; and closing and monitoring performance of deals. It will be your responsibility to oversee all aspects of deal finalization, including financial structure, due diligence, and interface with legal on contract terms and conditions. Additional responsibilities will include managing ongoing relationships with key partners, participating in strategic planning activities across divisions, and contributing to product development strategy.

This position requires 5+ years experience in a business development role with increasing levels of responsibility, including managing deals of varying size, structure and complexity. Mastery of financial modeling and accounting practices as they relate to alternative deal structures is essential, as are strong interpersonal skills and an ability to manage projects in a matrix structure. An MBA and either a college degree or previous work experience in life sciences are pluses.

Located just south of San Francisco, we offer a competitive salary and benefits package with advancement potential for your career. For consideration, please send your resume, indicating Req.# 7841, to: PE Biosystems, Human Resources Department, 850 Lincoln Centre Drive, Foster City, CA 94404. You may also fax to 650/638-5874, or email us at biocareer@perkin-elmer.com. PE Biosystems is an equal opportunity employer.

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PE Biosystems
A DIVISION OF PE CORPORATION



high impact, high profile positions exist in this exciting cutting-edge organization:

Bioinformatics Researcher

Responsibilities will include designing and/or evaluating new algorithms, implementing new computational tools, target identification and computer PCR primer design. Will work closely with wet-bench scientists in analyzing public domain and in-house protein/DNA sequences. This individual will be involved in the design and construction of a bioinformatics database and software. Required is knowledge of database searching and advanced data-mining techniques (e.g. HMMs, PSI-BLAST, Smith-Waterman). Experience with SQL and/or visually oriented data-mining systems a plus. Proficiency in Perl, C++, or Java and extensive experience in a UNIX environment is necessary. This candidate should possess an MS or Ph.D. in the biological sciences, computer sciences, or computation field with 1-2 years experience in bioinformatics; Bachelors will be considered with exceptional industry experience.

Bioinformatics Programmer

This individual will collaborate with bioinformatics colleagues to develop data-mining algorithms and computer programs to mine proteomic and genomic data. This candidate will support laboratory automation efforts, demonstrate expertise in full life cycle development of scientific applications in C++, Perl or Java under UNIX and web environments. Experience in areas of proteomics, genetics, molecular biology or genomics is needed. Experience in Bioinformatics tools such as blast, sequence alignment, and secondary structure predictions is necessary. Relational and object oriented database design (Oracle) a plus. This candidate should be comfortable with rapid prototyping, possess excellent interpersonal, problem solving and independent work skills. A BS in computer science with 2-3 years experience developing scientific applications in an industrial setting or an MS in genetics or molecular biology with equivalent programming experience.

Bioinformatics Database Administrator

This individual will work closely with software developers and bioinformatics scientists to develop relational and custom-built databases, integrating various types of proteomic and genomic data used in pharmaceutical research. Supervise data definition, analyze data usage, evaluate new tools and technologies related to Internet database connectivity, use SQL performance tuning activities and participate in applications development. Experience in rapid database prototyping, logical data analysis, database capacity planning, design and creation using Oracle technology for capturing data is needed. This candidate must have knowledge of design and implementation of multidimensional data models. Provide access to detailed data in support of the data-mining needs of end users. BS in computer science with 2-3 years industrial experience or an MS in genetics or molecular biology with equivalent DBA experience. Experience in bioinformatics or knowledge of genomics or proteomics a plus.

AxCell Biosciences offers a competitive salary and benefit package, and a tremendous growth potential. Please submit resume and cover letter to: **AxCell Biosciences HR Dept., 600 College Rd. E, Suite 3200, Princeton, NJ 08540, or FAX 609-750-8130.**

Axcell is a wholly owned subsidiary of Cytogen Corporation, an Equal Opportunity Employer M/F/D/V. We regret that only those selected for further consideration will be contacted.

POSITIONS OPEN

TWO TENURE-TRACK POSITIONS TO RESHAPE UNDERGRADUATE BIOLOGY EDUCATION (1) Cell and Molecular Biology (2) Integrative Biology

California State University, Fullerton, Department of Biological Science invites applications for two tenure-track positions at the rank of **ASSISTANT** or **ASSOCIATE PROFESSOR** to begin in August 2000. A position is available in cell and molecular biology and in integrative biology. The Department is committed to the development and implementation of a new, problem-driven, inquiry-based core program for majors. The new core courses are (1) Evolution and Biodiversity, (2) Cellular Basis of Life, (3) Molecular Biology and Genetics, and (4) Physiological Ecology. The successful candidate for each of the two positions will join faculty teaching groups associated with these courses and contribute to the development and teaching of two of these courses and coordinate the associated laboratory activities. The Cell and Molecular Biologist will teach the second and third courses, and the Integrative Biologist will teach the first and fourth courses in the core series. Each of the two new faculty will be required to maintain an active research program in the reshaping of undergraduate biology education with involvement of undergraduate and graduate students. Opportunities for collaborative research with other faculty in the Department also are available, depending on the background and interests of the new faculty. Applicants must have a Ph.D. with emphasis in either cell/molecular biology or integrative biology. Preference will be given to applicants who have demonstrated a strong commitment to teaching, the use of inquiry-based pedagogy, and the ability to take a leadership role in assessing the core courses and implementing new directions in curricular development. Salary is competitive and commensurate with rank, experience, and qualifications. Refer to website: <http://hr.fullerton.edu>.

Applicants should send a curriculum vitae (including a history of grant support), a summary of teaching philosophy (including teaching experience in using inquiry-based pedagogy), related publications, and three letters of recommendation to: **Chair, Cell and Molecular Biology Search Committee or Chair, Integrative Biology Search Committee, Department of Biological Science, California State University, Fullerton, P.O. Box 6850, Fullerton, CA 92834-6850. Website: <http://biology.fullerton.edu/>.** Review of applicants will begin 15 November 1999 and continue until suitable candidates are appointed. *Women and minority candidates are particularly encouraged to apply. CSUF is an Affirmative Action/Equal Opportunity/Title IX/ADA Employer.*

Molecular biology. The Department of Biology, Kenyon College, invites applications for a **TENURE-TRACK POSITION** in molecular biology. We seek a broadly trained Biologist; some preference will be given to candidates with research interests in molecular evolution or animal development. The successful candidate will teach in the introductory sequence, teach molecular biology and other advanced topics based on field of expertise, and advise undergraduate independent research projects. Kenyon provides research start-up support. Applicants should hold a Ph.D. degree and demonstrate teaching excellence, the potential to maintain research involvement by undergraduates, and should show promise of establishing a productive research program.

Review of applications will begin 19 October 1999 and continue until the position is filled. Statements of teaching and research interest, curriculum vitae, undergraduate and graduate transcripts, and three letters of reference should be sent directly to: **Molecular Biology Search Committee, Biology Department, Kenyon College, Gambier, OH 43022. E-mail: biosearch@kenyon.edu. Visit our website: <http://www2.kenyon.edu/depts/biology/>.**

An Equal Opportunity Employer, Kenyon affirms the values and goals of diversity; therefore, the applications of minorities and women are encouraged.

POSITIONS OPEN



TENURE-TRACK ASSISTANT PROFESSOR POSITION DEPARTMENT OF BIOCHEMISTRY Emory University School of Medicine

The Department of Biochemistry, Emory University School of Medicine invites applications for a tenure-track faculty position at the Assistant Professor level. The department has 18 faculty with a breadth of research interests and over \$6.5 million of annual research support. The successful candidate will establish a rigorous, well-funded, and nationally recognized research program and will participate in medical and interdisciplinary graduate training. Outstanding candidates in any area of investigation will be considered. Applications should include a current curriculum vitae with list of publications and a two-page description of research plans. The applicant should also arrange to have three letters of recommendation sent to: **Michelle Demain, Search Coordinator, Department of Biochemistry, 1510 Clifton Road, Emory University, Atlanta, GA 30322.** Applications will be reviewed starting in October and will be considered until the position is filled.

Visit our website: <http://www.biochem.emory.edu>.

Emory University is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR NEUROPHYSIOLOGY

The Department of Biological Sciences invites applications for a tenure-track position at the Assistant Professor level. The department is seeking an individual who uses contemporary approaches to study sensory/nervous system function, preferably in a non-mammalian model system. Candidates must possess a Ph.D. or equivalent degree and have postdoctoral experience. The successful candidate will be expected to maintain a strong, extramurally supported research program, supervise the research of graduate students, and teach at the undergraduate and graduate levels (see website for teaching specifics). Review of applications will begin on October 15, 1999, and continue until a suitable candidate is identified. Send curriculum vitae, statement of research plans, teaching interests, and three letters of recommendation to:

Neurophysiology Search Committee

Ref. Log # 023966

Department of Biological Sciences

508 Life Sciences Building

Louisiana State University

Baton Rouge, LA 70803

Website: <http://www.biology.lsu.edu>

LSU is an Equal Opportunity/Equal Access Employer.

California Institute of Technology invites applications for a tenure-track position as **ASSISTANT PROFESSOR** in the field of organic chemistry. The initial appointment will be for four years. Exceptionally well-qualified applicants may also be considered at the **ASSOCIATE** or **FULL PROFESSOR** level. Outstanding candidates who have completed their Ph.D. and have a strong commitment to research and teaching excellence are encouraged to apply. Submit curriculum vitae, publication list, a description of proposed research, and three letters of recommendation to: **Professor Robert H. Grubbs, Organic Chemistry Search Committee, M/C 164-30CR, California Institute of Technology, Pasadena, CA 91125.** Applications should be received by November 15, 1999. *The California Institute of Technology is an Equal Opportunity/Affirmative Action Employer. Women, minorities, veterans, and disabled persons are encouraged to apply.*

POSITIONS OPEN

Tenure-track **ASSISTANT PROFESSOR.** Department of Agronomy, Penn State. Applications invited for this position in the area of maize genetics, with a 70 percent research and 30 percent teaching responsibility. The desired starting day is July 1, 2000, or as negotiated. The individual will be expected to develop a nationally recognized, extramurally funded research program that identifies important or useful traits in maize. The Department is especially interested in candidates who use functional genomic analysis, quantitative trait loci analysis, or other novel molecular genetic approaches to identify disease resistance, added value traits, or novel plant products. Establishment of productive interactions with industry is expected, as are collaborative interactions with scientists in other departments and colleges at the University including the intercollege programs in genetics and plant physiology. Teaching responsibilities include a junior/senior-level undergraduate course in modern plant genetics and a graduate-level course in a topic area related to the candidate's area of expertise. Facilities available for this position encompass those of Penn State's Life Science Consortium and Department of Agronomy, including Nucleic Acid Facility, Center for Computational Biology, Hybridoma and Cell Culture Laboratory, Electron Microscope Facility, Center for Quantitative Cell Analysis, the Corn Breeding Laboratory, and the Russell E. Larson Agricultural Research Center including research farms, offices, laboratories, and greenhouses. The successful candidate will hold a Ph.D. in plant genetics or related field with a strong background in maize molecular and whole-plant genetics and supporting sciences. Postdoctoral experience is desirable. Interest in collaborative research/teaching and excellent communication skills are required. Salary will be competitive, commensurate with background and experience. An attractive benefits package is also available. Applicants should submit a detailed curriculum vitae and a statement of research and teaching interests (not to exceed three pages). In addition, each applicant needs to arrange to have three professional references submitted directly. Forward all materials to: **Dr. David Huff, Department of Agronomy, 116B Agricultural Sciences and Industries Building, The Pennsylvania State University, University Park, PA 16802.** Applications should be received by November 15, 1999, although the search will continue until a suitable candidate is identified. *Affirmative Action/Equal Opportunity Employer.*

ANIMAL BIOLOGIST ASSISTANT PROFESSOR

The Major Program in Biological and Chemical Sciences invites applications for a tenure-track position in animal biology at the Assistant Professor level. The successful candidate will teach courses at the introductory and advanced levels (including animal physiology, developmental biology, cellular biology, and subjects in the candidate's area of interest/expertise), and carry out research in partnership with undergraduate majors, all of whom do one and a half to two years of research. Candidates should be committed to innovative teaching, investigative learning, conscientious advising, and their own continuing intellectual vitality. They should expect to participate in non-majors and college-wide programs; preference will be given to applicants with broad interests and/or experience in interdisciplinary teaching. A Ph.D. is required.

Wells College, located in central New York, is a selective undergraduate liberal arts college for women. About half of the graduates from the popular biological and chemical sciences major go on to obtain advanced degrees. Applicants should submit a curriculum vitae, statement of teaching philosophy and research interests, transcripts, and three letters of reference to: **Biology Search Committee c/o Dr. Ellen Hall, Dean of the College, Wells College, Aurora, NY 13026. E-mail: ehall@wells.edu.** Applications will be considered beginning October 15, 1999.

Wells College is an Equal Opportunity Employer. Minorities are especially encouraged to apply.



The University of Texas at Austin

FACULTY POSITIONS

Developmental Genetics

Section of Molecular Cell and Developmental Biology and the Institute for Cellular and Molecular Biology

Positions are open for one or more faculty members who are using genetic model systems (*C. elegans*, *Drosophila*, mouse, zebrafish, *Arabidopsis*) for the analysis of development. Candidates must have a Ph.D. or similar degree. While we are primarily interested in candidates at the Assistant Professor level, exceptional applicants at other levels will also be considered. The successful candidates will be expected to build a vigorous, well-funded research program and to teach at the undergraduate and graduate levels. Generous start-up funds and salary are available. The ICMB provides state-of-the-art facilities for molecular biology.

The molecular biology community at The University of Texas at Austin is in an exciting phase of rapid growth. Recent MCDB/ ICMB hires include Mark Estelle and Paul Macdonald. Applications will be considered from October 15 until the positions are filled.

Austin is a beautiful, stimulating and highly livable city with natural springs, large lakes and green hill country.

To apply, please send a CV, a brief statement of research interests, representative publications and email addresses/phone numbers for at least three references to:

Dr. Janice A. Fischer, Chair, Developmental Genetics Recruitment Committee
Section of Molecular Cell & Developmental Biology, BIO 311
The University of Texas at Austin
Austin, TX 78712

Homepages • <http://www.icmb.utexas.edu>

<http://vize222.zo.utexas.edu/utcdb/mcdb.html>

The University of Texas at Austin is an Equal Opportunity Employer.



The University of Texas at Austin

FACULTY POSITION

Molecular Genetics and Microbiology and The Institute for Cellular and Molecular Biology

The Section of Molecular Genetics and Microbiology at The University of Texas at Austin, in partnership with the Institute for Cellular and Molecular Biology, invites applicants for a tenure-track faculty position at the Assistant Professor level. A second position may become available. We are a scientifically diverse faculty working in both prokaryotic and eukaryotic systems and are especially interested in applicants in the areas of molecular genetics, transcription, genomics, signal transduction, molecular pathogenesis and nucleic acid-protein interactions. Outstanding applicants in other areas and at more senior levels will also be considered. The position offered is highly competitive with regard to start-up funds, salary and laboratory space. Applications received prior to November 15, 1999 will be considered first.

Austin, located on the eastern edge of the Texas Hill Country, is widely recognized as one of America's most attractive and livable cities.

Please send curriculum vitae, list of publications, a short (1-2 page) research plan, and three letters of recommendation to:

Dr. Robert M. Krug
Section of Molecular Genetics and Microbiology and
The Institute for Cellular and Molecular Biology
The University of Texas at Austin
2500 Speedway
Austin, Texas 78712-1095

Homepages • <http://www.esb.utexas.edu/microbio> and <http://www.icmb.utexas.edu>

The University of Texas at Austin is an Equal Opportunity Employer.
Qualified women and minorities are encouraged to apply.

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Where you can become your best.

Vice Provost for Research and Graduate Studies

Iowa State University invites nominations and applications for the position of Vice Provost for Research and Graduate Studies. The Vice Provost, working closely with the President and Provost, provides leadership for and fosters excellence in Iowa State's research programs. The Vice Provost advances research interests with federal agencies and other sponsors of major research efforts, and is responsible for the coordination and administration of research, graduate programs, technology transfer, and research services. The position has direct responsibility for administering a budget of approximately \$20 million. The Vice Provost works with the deans of the colleges as well as with the directors of the various research centers and institutes to maintain and strengthen the university's research. The Vice Provost is also responsible for the administration of the Graduate College, a responsibility that may be delegated.

Iowa State is a Carnegie Foundation Research I university and AAU member located in Ames, a progressive city of 50,000 recently acknowledged nationally for its exceptional quality of life. The university's 26,000-student population includes over 4,000 graduate students, with a faculty and staff of 6,000. Doctorate degrees are offered in 81 fields and masters degrees in 110. Annual research expenditures approach \$200 million. Over 60 centers and institutes conduct research in specialized areas. Five report to the Vice Provost. The Vice Provost coordinates the technology transfer programs including the Office of Intellectual Property and Technology Transfer, the ISU Research Foundation, the Iowa State Innovation System and the Iowa State University Research Park. Iowa State also operates the Ames Laboratory under contract with the U.S. Department of Energy. Recent research initiatives at Iowa State include efforts in fundamental plant sciences, applications of virtual reality, computational biology, healthy livestock, environmental and large-scale landscape management, and information systems. Iowa State ranks second among universities in the nation for the number of top technologies honored by R&D magazine. For more information about Iowa State, visit our Web site: www.iastate.edu

Iowa State seeks energetic and creative candidates with a strong record of leadership in research and scholarship. Candidates must demonstrate an understanding of a broad range of university research and the ability to work with the federal government, private foundations, and other external research sponsors. They must have a distinguished record of scholarly activity including proven ability to obtain extramural funding and qualify for a tenured appointment in an academic department. Candidates from underrepresented groups are encouraged to apply.

Nominations should include the name and complete address of the nominee. Applications should include a letter expressing the applicant's interest, relevant experience, and qualifications; a current curriculum vita; and names, addresses, and telephone numbers of five references. Nominations and applications should be sent to Stanley Johnson, Search Committee Chair, Iowa State University, 107 Beardshear Hall, Ames, Iowa 50011 or by fax to (515) 294-8844. E-mail inquiries can be sent to srjohnso@iastate.edu.

Review of applications will begin on October 20, 1999, and continue until the position is filled.

Iowa State University is an equal opportunity/affirmative action employer and encourages the nomination and application of women and minority candidates.

POSITIONS OPEN

PROTEIN STRUCTURAL BIOLOGY MICHIGAN STATE UNIVERSITY DEPARTMENT OF BIOCHEMISTRY

The Department of Biochemistry seeks applications for a tenure-track position at the **ASSISTANT PROFESSOR** level. Applicants should have postdoctoral experience that demonstrates productivity and outstanding potential for independent research applying modern biophysical and computational methodology in the area of protein structure, function, and design. This is a focal area in the department, and the successful candidate will complement and enhance existing expertise in this area. The Department has a large faculty conducting research on many aspects of contemporary biochemistry and molecular biology, with other research emphases in the areas of plant biochemistry and biochemistry of the cell nucleus. This provides both the stimulating environment and opportunities for research collaboration. Further information about the position and Department, including research activities and interdisciplinary interactions with faculty in other departments/units, is available at **website: <http://www.bch.msu.edu>**. The Department of Biochemistry occupies a building with well-equipped research and teaching laboratories and support facilities, and has vigorous undergraduate, graduate, and postdoctoral training programs. Applicants should submit a curriculum vitae and a description of research accomplishments and future interests, and have three letters of recommendation sent on their behalf, to: **Dr. William Smith, Chairperson, Department of Biochemistry, Box PSFD, Michigan State University, East Lansing, MI 48824-1319**. To ensure consideration, applications and supporting documents must be received by December 3, 1999.

The Biochemistry faculty has explicitly endorsed efforts to increase the diversity of its ranks. Accordingly, candidates from groups currently underrepresented in academic science are encouraged to apply. Michigan State University is an Equal Opportunity/Affirmative Action Employer. Persons with disability have the right to request and receive reasonable accommodation.

TENURE TRACK SWARTHMORE COLLEGE CHEMISTRY DEPARTMENT

We invite applications for a tenure-track position in bioorganic chemistry/chemical biology at the level of **ASSISTANT PROFESSOR**. The initial appointment will begin on September 1, 2000. Ph.D. required; postdoctoral experience preferred. We seek outstanding candidates who can teach organic and biological chemistry and who have research interests at the interface of chemistry and biology. For complete information on our facilities, curriculum, and faculty, interested individuals may consult our World Wide Web page at **website: <http://www.swarthmore.edu/NatSci/chemistry/>**. Candidates should submit a curriculum vitae, copies of graduate and undergraduate transcripts, and statements of teaching interests and research plans, and arrange for three letters of recommendation to be sent to: **Prof. Robert F. Pasternack, Department of Chemistry, Swarthmore College, 500 College Avenue, Swarthmore, PA 19081-1397**. Application materials must be complete by November 8, 1999, to assure full consideration. *Women and members of underrepresented minorities are especially encouraged to apply.*

UNIVERSITY OF FLORIDA

Seeks an **ASSISTANT/ASSOCIATE PROFESSOR** in the Department of Medicine, Division of Internal Medicine, 100 FTE, tenure-track position. M.D. degree, Board-certified/Board-eligible in internal medicine. The responsibilities will consist of treating patients on an outpatient and inpatient basis. Teaching medical students and residents coinciding with the care of those patients. No research responsibilities. Salary and benefits commensurate with experience. Recruiting deadline: September 27, 1999. Anticipated start date November 1, 1999. Please reply with curriculum vitae to: **George Caranasos, M.D., Professor, Box 100277 JHMC, Gainesville, FL 32610**. *An Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN



TENURE-TRACK POSITION AT NIH MOLECULAR MECHANISMS OF PROTEIN TRAFFICKING

A tenure-track position is available in the Cell Biology and Metabolism Branch (CBMB), National Institute of Child Health and Human Development to develop an independent research program on the molecular mechanisms of protein trafficking or degradation, preferably in connection to human disease. Candidates must have an M.D. or Ph.D. degree, and a proven record of productivity in the subject area of the search. The CBMB has a tradition of excellence in various areas of cell biology research. Other groups at the CBMB are headed by **Juan Bonifacio, Richard Klausner, Mary Lilly, Jennifer Lippincott-Schwartz, Tracey Rouault, Gisela Storz, and David Wassarman**. The recruitment package includes generous start-up and operational funds, three Postdoctoral or Technical positions, and renovated laboratory space. Applicants should submit a curriculum vitae, bibliography, a two-page statement of research interests, and three letters of recommendation to: **Chair, Cell Biology and Metabolism Branch Search Committee, Building 18T, Room 101, NIH, 18 Library Drive, MSC 5430, Bethesda, MD 20892-5430**. Applications must be postmarked by October 30, 1999.

NIH is an Equal Opportunity Employer.

MAMMALOGIST/ORNITHOLOGIST ASSISTANT PROFESSOR

The Department of Biological Sciences at Mary Washington College is seeking a Mammalogist or Ornithologist for a tenure-track appointment at the Assistant Professor level. Applicants are required to have expertise in ethology, a Ph.D. or equivalent terminal degree, and must be committed to excellence in teaching. Course responsibilities will include general biology and upper-level courses in your area of expertise. The area of research interest should complement those of current members of the department.

Submit a curriculum vitae, transcripts, and brief statements of teaching philosophy and research goals, and must arrange to have three letters of reference sent directly to: **The Office of Human Resources, Biological Sciences Search, Mary Washington College, 1301 College Avenue, Box 615, Fredericksburg, VA 22401-5358**. Deadline for receipt of applications is October 29, 1999, by 5 p.m. Postmarks will not be honored. Visit the College's **website: www.mwc.edu**. *Mary Washington College is deeply committed to Affirmative Action and encourages minorities and women to apply.*

DEVELOPMENTAL BIOLOGIST

The Department of Zoology, University of Oklahoma, has a tenure-track **ASSISTANT PROFESSOR** position beginning in the fall of 2000 for an individual addressing fundamental questions in animal development. Teaching responsibilities will be one course per semester, including undergraduate and graduate courses in animal developmental biology, and periodic rotation through other zoology courses, dependent on expertise. Candidates must have Ph.D. with proven record of good teaching and research abilities (demonstrated by publications). Postdoctoral experience and a commitment to undergraduate teaching preferred. More information is available at **website: <http://www.ou.edu/cas/zoology/>**. Screening begins 31 October 1999 and will continue until position is filled. Send curriculum vitae, four letters of recommendation, reprints, summary of teaching experience, and description of research interests to: **James N. Thompson, Jr., Chair, Department of Zoology, University of Oklahoma, Norman, OK 73019**. *An Equal Opportunity/Affirmative Action Employer. OU has a policy of being responsive to the needs of dual-career couples.*

POSITIONS OPEN

ASSISTANT PROFESSOR. Molecular or cellular physiology (MCP1). Tenure-track faculty position. Seeking exceptional faculty with strong potential for establishing extramurally funded research program in molecular or cellular physiology of higher organisms compatible with a research environment emphasizing molecular recognition and cellular response at its broadest definition. The successful candidate must have a congruent interest in teaching at the undergraduate and graduate levels. At least two years of postdoctoral experience and interests in related areas of scholarship (bioinformatics or environmental issues highly desirable) are expected.

ASSISTANT PROFESSOR. Nutritional/metabolic control of genetic regulation (MG99-2). The School of Biological Sciences invites applications for a tenure-track position at the Assistant Professor level. Qualifications include at least two years of postdoctoral experience. Preference will be given to candidates with expertise in the study of genetic control of metabolic regulation in any organism model except warm-blooded vertebrates. Other aspects of cell biology complementary to existing research will also be considered. The successful candidate is expected to develop an independent extramurally funded research program in this field and to participate in teaching at the graduate and undergraduate levels in courses adopted by the school.

We offer competitive salary and start-up packages, as well as state-of-the-art facilities (see **website: <http://sgi.bls.umkc.edu>**). Applications for both positions are due by November 2, 1999, but will be considered until the position is filled. Send curriculum vitae, statement of future research, and three letters of recommendation to: **Search Committee, Position (specify MCP1 or MG99-2), School of Biological Sciences, University of Missouri-Kansas City, 5007 Rockhill Road, Room 114 BSB, Kansas City, MO 64110**.

An Affirmative Action/Equal Opportunity Employer.

TENURE-TRACK ASSISTANT PROFESSOR POSITION IN STRUCTURAL BIOLOGY

The Department of Biochemistry and the University of Kentucky Center for Structural Biology are soliciting applications for an individual utilizing physical, chemical, biochemical, and/or recombinant DNA approaches to study molecular mechanisms in biological systems. Preference will be given to applicants with research in the area of protein engineering. The successful candidate will join an existing group of faculty with expertise in high field NMR and X-ray crystallography as well as theoretical approaches to protein folding and structure. Applicants should send a letter of intent, curriculum vitae, a brief description of their research plan and three letters of recommendation. All materials should be addressed to: **Structural Biology Search Committee, Department of Biochemistry, University of Kentucky, 800 Rose Street, Lexington, KY 40536-0298**. *The University of Kentucky is an Equal Opportunity Employer and encourages applications from qualified women and minorities.*

ANIMAL POPULATION BIOLOGY

The School of Biological Sciences invites applications for a tenure-track **ASSISTANT PROFESSOR** faculty position in animal population biology effective 16 August 2000. We are especially interested in candidates whose research incorporates molecular approaches to address major questions on the structure and dynamics of natural population. The successful candidate will be expected to establish an extramurally funded research program and participate in undergraduate and graduate teaching. A Ph.D. in an appropriate area is required; postdoctoral experience is preferred. Applicants should submit a curriculum vitae, a summary of research interests, a statement of teaching experience and interests, and names of three references to: **Pamela S. Soltis, Chair, Animal Population Biology Search Committee, School of Biological Sciences, Washington State University, Pullman, WA 99164-5236**. Closing date 1 November 1999. *WSU is an Equal Employment Opportunity/Affirmative Action Employer. Protected group members encouraged to apply.*

Distinguished Fellowship

Lawrence Livermore Postdoctoral Fellowship

The Lawrence Livermore National Laboratory Director has established a Lawrence Livermore Postdoctoral Fellowship. This is a highly desirable, prestigious position with ample resources and freedom to conduct cutting edge research in the fields of the candidate's choice. Duration for the Fellowship is up to three years. Two openings are immediately available, and two additional positions will be available every year to a maximum of six. Fellowships are awarded only to candidates with exceptional talent, credentials, and a track record of research accomplishment.

Candidates will do original research in one or more aspects of science relevant to the mission and goals of LLNL which include: Physics, Computational Mathematics, Computer Science, Chemistry, Material Science, Engineering, Environmental Research, Atmospheric Science, Geological Sciences, Energy, Laser Science, and Biological Science. Successful candidates may participate in experimental or theoretical work at LLNL, and will have access to LLNL's extensive computing facilities, specialized laboratory facilities, and field equipment. A senior scientist will serve as a mentor to each of the Fellows. The candidates will receive full management and administrative support. The salary is \$6000/mo.

Please refer to our web page <http://www.llnl.gov/urp/LLNLPostDoc/LLNLPostDoc.htm> for eligibility requirements and application information. Please reference source code AJSC909AD. The deadline for application is Dec. 30, 1999. No applications will be accepted after this date. Lawrence Livermore National Laboratory is operated by the University of California for the U.S. Department of Energy.

University of California



**Lawrence Livermore
National Laboratory**

THE SCHOOL OF ENGINEERING AT THE UNIVERSITY OF CALIFORNIA, IRVINE invites applications for a senior faculty position to become the director of the Biomedical Engineering Center and the new chair of the planned new Department of BIOMEDICAL ENGINEERING beginning July 1, 2000. This position is one of five positions that are part of a new *Development Award* from the Whitaker Foundation, and represent the first phase of new faculty that UCI will be recruiting in biomedical engineering over the next four years.

We seek an individual who has an established research record of national prominence; has visionary leadership in the field of biomedical engineering, and who has the personal attributes to lead the substantial growth of the research and teaching activities of our planned new department in the 21st century. All research areas will be considered, although the research focus areas of the *Development Award* include biomedical photonics, biomedical nanoscale technologies (BioMEMS), and biomedical computational technologies. The University of California, Irvine is situated in Orange County's rapidly growing high technology sector that includes more than 150 biomedical companies.

For full consideration, candidates should send their curriculum vitae, a brief (no more than 2 pages) description of current and future research and teaching interests, and at least three letters of reference by January 1, 2000 to:

**Search Committee Chair, Biomedical Engineering
Center for Biomedical Engineering
204 Rockwell Engineering Center
School of Engineering
University of California, Irvine
Irvine, CA 92697-2700**

Submission via electronic mail can be made to: Irehbaum@uci.edu

You can visit our website at: <http://soeweb.eng.uci.edu/bme/>

The University of California is an Equal Opportunity Employer committed to excellence through diversity.



The Jackson Laboratory

The Jackson Laboratory is an independent, not-for-profit mammalian genetics research institution, a major resource for the research community, a center for training in mammalian genetics and has been designated a Basic Cancer Center by the National Cancer Institute.



STRAIN CHARACTERIZATION PROJECT LEADER

The Jackson Laboratory is undertaking a major scientific endeavor involving characterizing mouse strains for use by the world wide scientific community. We are seeking a strong leader to spearhead this effort.

The Strain Characterization Project Leader (SCPL) coordinates the Strain Characterization Project under the direction of the Director of The Jackson Laboratory and the Strain Characterization Steering Committee. S/he will work in conjunction with the database project manager, the Mouse Genome Database staff, and external and internal scientific investigators and funding partners to ensure that all aspects of the Project are on track.

The SCPL is primarily responsible for ensuring that: (1) communication with each experimental laboratory testing animals is continuous, that Steering Committee guidelines are understood, and that the laboratories are supplied with appropriate animals in a timely manner; (2) communication between the database project manager and those scientists who do the experimental work is maintained, and that data are submitted to the database as they are generated/analyzed and in agreed upon format; and (3) communication with the funding sources for the Project is secure by developing and promoting clear and open communications among the Project's staff, scientific partners, and financial supporters. In addition, the SCPL will work closely with the Strain Characterization International Steering Committee to identify funding sources and write grants and other Project proposal applications.

Ph.D. degree in biology, extensive experience with mammalian systems, and specific knowledge of the mouse are required. The position requires attention to detail and broad scientific understanding to explain the Project and to effectively communicate with the scientific and financial partners. As important, candidates must have a proven record of successful interpersonal skills, including expert facilitation abilities, and an outstanding presence when making formal presentations. The SCPL must be a mature individual who can provide day-to-day constructive, enthusiastic leadership in coordinating a diverse, dispersed scientific Project and is comfortable working with a wide variety of people to reach a common goal. **Please refer to job posting #297/99.**

Applications should be addressed to: The Human Resources Office, The Jackson Laboratory, 600 Main Street, Bar Harbor, Maine 04609. E-mail: jobs@jax.org. Fax: 207 288 6106.

The Jackson Laboratory is an Equal Opportunity/Affirmative Action Employer

<http://www.jax.org>

POSITIONS OPEN

The Department of Biology at San Diego State University offers two tenure-track positions, to begin fall 2000 at the **ASSISTANT PROFESSOR** level. **COMPARATIVE ANIMAL PHYSIOLOGIST**, Evolutionary Biology Program Area. Desired research interests should center on integrative, comparative/phylogenetic studies of whole-animal physiology, addressing evolutionary or ecological questions. Teaching to include animal physiology, participation in an undergraduate course, and a course in an area of expertise. **PLANT ECOLOGIST**, Ecology Program Area. Desired research interests include conservation/restoration, regional plant/atmosphere exchange, impacts of changing land use, or global change and specialization in molecular, physiological, population, ecosystem, or regional approaches. Teaching to include plant ecology, participation in an undergraduate general ecology course, and a course in an area of expertise.

Candidates for either position must have a Ph.D. and active research program. Postdoctoral experience expected. Demonstration of external funding preferred. Successful candidates will interact with a diverse student body and with an active group of biology faculty in systematics, evolution, population studies, ecosystem/global change, conservation/restoration ecology, and cell/molecular biology. Consideration will include the candidate's match to respective programmatic strengths including research emphases, teaching innovation, and student mentoring. Send curriculum vitae, statement of research and teaching interests, three representative publications, and have three letters of reference sent, as appropriate, to either: **Comparative Animal Physiologist or Plant Ecologist Search Committee, Department of Biology, San Diego State University, San Diego, CA 92182-4614**. Applications accepted until 18 October 1999 or until a suitable candidate has been identified. More information available at **website: <http://www.sci.sdsu.edu/fac-recruitment>**. *SDSU is an Equal Opportunity Employer and does not discriminate against persons on the basis of race, religion, national origin, sexual orientation, gender, marital status, age, or disability. Women, ethnic minorities, and persons with disability are encouraged to apply.*

ASSISTANT/ASSOCIATE PROFESSOR OF WILDLIFE POPULATION ECOLOGY

Tenure-track, 12-month. Contact **website: <http://www.ag.unr.edu/naes/jobs/joblist.html>** for further information. Requires Ph.D. and a minimum of three years of postdoctoral experience in wildlife population ecology of birds and/or mammals. Demonstrated success in instruction, competitive research, student mentoring, and diversity enhancement. Help build dynamic undergraduate program in wildlife conservation, participation in outstanding graduate program, and develop nationally competitive research program. Candidates with modeling skills, knowledge of life history theory, and a commitment to building research in Great Basin especially sought. Send letter of application, curriculum vitae, key publications, statements of teaching philosophy and research interests, and names/e-mail and postal addresses, and telephone numbers of four references by November 1, 1999, to: **L. Oring or J. Berger, Department of Environmental Resource Sciences, University of Nevada, 1000 Valley Road, Reno, NV 89512-0013**. An Equal Opportunity Employer/Affirmative Action Institution.

SCIENTIFIC/TECHNICAL WRITER position immediately available. Position requires strong scientific background, M.S./M.A. or Ph.D. in a scientific/medical discipline. Excellent ability to interpret scientific and clinical trial data, strong scientific writing ability, editorial skills, and excellent interpersonal skills are critical. Experience in graphic and statistical programs preferable. The successful candidate will write and edit scientific articles, grants, and poster/slide presentations. Please send curriculum vitae with cover letter, including salary history, and the names of three references, to: **Dr. S. Mohan, Loma Linda University, P.O. Box 7210, Loma Linda, CA 92354**. *LLU is an Equal Opportunity Employer.*

POSITIONS OPEN

UNIVERSITY OF COLORADO AT BOULDER Molecular, Cellular, and Developmental Biology

We seek applications from Cell Biologists for a tenure-track faculty position at the **ASSISTANT PROFESSOR** level, beginning in the fall of 2000. We seek to establish an exceptional program in the area of cell biology. Applications from candidates who would strengthen the Department's diversity are especially encouraged. Complete applications include curriculum vitae, publications, short summary of scientific interests, and three evaluative letters from knowledgeable scientific referees, solicited by the applicant and sent directly to Boulder. All materials must be postmarked by November 15, 1999, and sent to: **Cell Biology Search, Molecular, Cellular, and Developmental Biology, University of Colorado, Boulder, CO 80309-0347**. *The University of Colorado at Boulder is committed to diversity and equality in education and employment.*

ASSISTANT PROFESSOR SIMON FRASER UNIVERSITY CELLULAR BIOCHEMISTRY

Applications are sought for a full-time, tenure-track faculty position in cellular biochemistry. Applicants in any area of cellular biochemistry will be considered. Appropriate areas might include, biochemical approaches to cytoskeleton structure and function, cell motility, intracellular compartments and sorting pathways, or membrane domains. The successful applicant will be expected to establish an externally funded and independent research program in their area of expertise, and contribute to the undergraduate and graduate teaching programs in molecular biology and biochemistry.

A Ph.D. and relevant postdoctoral experience is required. Applicants should send their curriculum vitae, a statement of research interests, reprints of up to five research publications, and the names and addresses of three referees to:

**Cellular Biochemistry Search Committee
Institute of Molecular Biology and Biochemistry
Simon Fraser University
Burnaby, British Columbia V5A 1S6 Canada**

Applications should be received by December 1, 1999. This position is subject to budgetary approval. **Website: <http://darwin.mbb.sfu.ca>**.

In accordance with Canadian Immigration requirements, this advertisement is directed to Canadian citizens and permanent residents. Simon Fraser University is committed to the principle of Equity in Employment and offers Equal Employment Opportunities to qualified applicants.

IMMUNOLOGIST/VIROLOGIST DEPARTMENT OF BIOLOGICAL SCIENCES

Southeastern Louisiana University

Southeastern Louisiana University is seeking applicants for the position of full-time tenure-track **ASSISTANT PROFESSOR** in the Department of Biological Sciences available spring or fall 2000. Qualifications: Ph.D., postdoctoral training preferred. The successful candidate will maintain an active research program, direct undergraduate and graduate students (M.S. candidates), and participate in teaching at the undergraduate and graduate level in immunology, virology, genetics, and/or cell biology. Salary is commensurate with experience and qualifications. Position will remain open until a qualified candidate is identified. Send letter of application, résumé, three current letters of reference, and a copy of all transcripts (originals required upon employment) to: **William N. Norton, Department of Biological Sciences, Southeastern Louisiana University 10736, Hammond, LA 70402**. See Biology website for more information, **website: www.slu.edu/biology**. *SLU is an Affirmative Action/ADA/Equal Employment Opportunity Employer.*

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR of rangeland restoration ecology and management. Tenure-track, 12-month. University of Nevada, Reno Department of Environmental and Resource Sciences. Ph.D. in rangeland science, restoration ecology, or closely related field with specialty in revegetation of rangelands; at least one degree in range and in ecology; strong understanding of management issues/opportunities in Great Basin or comparable arid/semi-arid landscapes; effective ability to teach and mentor; high motivation to fund, conduct, and publish competitive applied research; and strong interpersonal and communication skills are required. Postdoctoral experience is preferred. The successful candidate will have teaching and research responsibilities with some expectation for outreach education. A principal appointment with the Nevada Agricultural Experiment Station provides significant research opportunity. She/he will teach range and forest plants, the range component of forest and range measurements, develop a new class in rangeland restoration ecology and vegetation management, and become the primary advisor for undergraduate range students. Consideration of appointments begins November 1, 1999. Send letter, curriculum vitae, copies of publications, and arrange to have three letters of reference sent to: **Jean Freestone, Search Committee Section, Department of Environmental and Resource Sciences, 1000 Valley Road, University of Nevada, Reno, NV 89512-0013**. **Website: <http://www.ag.unr.edu/naes/jobs/joblist.html>**. *Equal Employment Opportunity/Affirmative Action.*

CELLULAR AND/OR DEVELOPMENTAL BIOLOGIST

The Department of Biology at Wake Forest University is seeking a tenure-track **ASSISTANT PROFESSOR** in the area of cellular and/or developmental biology to begin in August 2000. The successful candidate will be expected to develop an independent research program that involves undergraduate, M.S., and Ph.D. students. The candidate will also be expected to teach an introductory course in cellular and molecular biology and a course in his or her specialty. The Biology Department and the University are committed to excellence in both teaching and research. For further information, please consult our **website: <http://www.wfu.edu/Academic-departments/Biology/new/index.html>**. Please submit by November 15, 1999, curriculum vitae, statements of research interests and teaching philosophy, up to three representative publications, and the names, addresses, and telephone numbers of three referees to: **Dr. James Curran, Department of Biology, P.O. Box 7325, Wake Forest University, Winston-Salem, NC 27109**. **FAX: 336-758-6008; e-mail: curran@wfu.edu**. *Wake Forest University is an Equal Opportunity Employer and is committed to increasing the diversity of its faculty.*

UNIVERSITY OF HOUSTON DEPARTMENT OF PHARMACOLOGICAL AND PHARMACEUTICAL SCIENCES

Several tenure-track positions at the rank of **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** are available. Applicants must have a Doctorate and postdoctoral experience. The research areas of interest could include any aspect of cellular and molecular approaches to drug action, drug delivery, or related areas. Successful candidates will be expected to develop and/or maintain an extramurally funded research program and participate in professional and graduate teaching. Generous start-up packages are available. Candidates should submit curriculum vitae, summary of research interest, and the names of three references to: **Dr. Karim Alkadhi, Chair, Search Committee, Department of Pharmacological and Pharmaceutical Sciences, College of Pharmacy, University of Houston, Houston, TX 77204-5515**. Applications should arrive before November 1, 1999, and will be reviewed upon receipt. *The University of Houston is an Equal Opportunity/Affirmative Action Employer; minorities, women, veterans, and persons with disability are encouraged to apply.*

Functional Genomics at the University of Nevada, Reno

The Nevada Agricultural Experiment Station and College of Agriculture at the University of Nevada, Reno are soliciting applications from outstanding candidates at various levels to fill four new 12 month tenure-track faculty positions (75% research, 25% teaching) in the general area of functional genomics. The successful candidates are expected to work as a team with existing faculty to establish, utilize and integrate genomics-based approaches in the study of plant, insect and animal biology. Areas of interest include plant biochemistry, especially as it relates to primary and secondary pathways producing compounds of importance to human nutrition, insect development/biochemistry and large animal genomics. This effort is supported by a major grant from the National Science Foundation.

Positions #1 & #2 Plant Functional Genomics
Assistant/Associate Professor in the Department of Biochemistry: Candidates are sought whose research uses functional genomics to address fundamental questions in intermediary or secondary plant metabolism. Research directed at elucidating and manipulating pathways responsible for the synthesis of secondary metabolites of importance to human health or agriculture are particularly appropriate. Contribution to undergraduate and/or graduate teaching programs is expected.

Applicants for Positions #1 and #2 should send curriculum vitae, statement of research interests and three letters of recommendation for receipt by 10/31/99 to: Plant Genomics Search Committee, Biochemistry Department/200, University of Nevada, Reno, NV 89557-0014. Attn. Dr. Dean DellaPenna, Phone 775-784-1918, FAX 775-784-1650.

Position #3 Insect Functional Genomics
Assistant/Associate Professor in the Department of Biochemistry: Candidates are sought whose research uses functional genomics to study fundamental processes in insects that are designed or have the potential to lead to new or improved insect control strategies. Contribution to undergraduate and/or graduate teaching programs is expected.

Applicants for Position #3 should send curriculum vitae, statement of research interests and three letters of recommendation for receipt by 10/31/99 to: Insect Genomics Search Committee, Department of Biochemistry/330, University of Nevada, Reno, NV 89557-0014. Attn. Dr. Gary Blomquist, Phone 775-784-4104, FAX 775-784-1419.

Position #4 Animal Functional Genomics
Assistant/Associate/Full Professor in the School of Veterinary Medicine and Department of Biochemistry: Candidates are sought whose research uses functional genomics to address fundamental questions relating to mammalian developmental or resistance traits. Candidates whose research programs focus on large animal genomics are of special interest, however applicants with research interests focused on genomics of other mammals are encouraged to apply. Contribution to undergraduate and/or graduate teaching programs is expected.

Applicants for Position #4 should send curriculum vitae, statement of research interests and three letters of recommendation for receipt by 10/31/99 to: Animal Genomics Search Committee, School of Veterinary Medicine/202, University of Nevada, Reno, NV 89557-0014. Attn. Dr. Mark Hall, Phone 775-784-4122, FAX 775-784-1375

EOE/AA

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It's our solid dedication, vision and constant search for answers that allow us to touch millions of people around the world every day. As a major division of Fortune 100 American Home Products Corporation, we help people lead healthier lives through the development of innovative pharmaceutical, vaccine and nutritional products. We achieve this through our superior research, manufacturing, sales and marketing capabilities. Enjoy the freedom to develop your own career while having the support of a valuable team at our **Chazy, NY** facility.

Senior Research Scientist I Reproductive Toxicology

In this position, you will take overall responsibility for safety studies on new drug candidates in accordance with GLP and other regulatory guidelines. Other duties will include overseeing, coordinating, and participating in the preparation of technical regulatory documents relating to these studies, representing Drug Safety on project teams, and facilitating communication of safety issues to and from project teams members. You will also provide interpretation of results and integrate information provided by other groups (e.g., pathology and drug metabolism). The ability to work with minimal supervision on day-to-day management operations is required.

Requirements include a Ph.D. in Biology, Pharmacology, Developmental Biology, Toxicology or a related field; an emphasis on Reproductive Biology or a related field is preferred. A minimum of 2 years' GLP experience and/or pharmaceutical/industrial experience is also required.

Wyeth-Ayerst offers competitive compensation and benefits programs including stock options, child-care subsidies, business casual Fridays, educational assistance and professional development programs. Please forward your resume with salary requirements to: **Wyeth-Ayerst, Reference OPSCI,** P.O. Box 7886, Philadelphia, PA 19101-7886. Fax in fine mode to: (610) 989-4854. Email: jobs@RAMAIL1.wyeth.com (ASCII format, no attachments, subject: resume). Principals only. Equal Opportunity Employer. M/F/D/V.

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We are an Equal Opportunity Employer.

Director, Manufacturing

Requires MS in Chemistry, Chemical Engineering or Mechanical Engineering with minimum of 5-7 years of applicable experience optimizing machine and people schedules; developing contingency plans, allocating resources and evaluating/improving processes.

Director, Chemical Development

Direct a scientific group involved in chemical development. Requires skills in process and combinatorial chemistry; 10+ years of experience and a Ph.D. in Chemistry or MS in Chemistry with substantial industry experience.

Director, Analytical Chemistry

Requires 12 to 15 years of proven strong technical accomplishments and management skills and experience with Mass Spec, Chromatography, high throughput characterization/purification and laboratory automation. Ph.D. in Organic or Analytical Chemistry.

Informatics Developer

Front-end and back-end development work in an Oracle-based environment. Technology includes Java, JavaScript, ODBC, PL/SQL, CGI, Perl and UNIX.

Scientific Programmer

Areas of work include database mining, data visualization, lead optimization, structure-based design and library design. Technology includes C/C++, UNIX, Perl/CGI.

Associate Director, Automated Systems Development

Manage chemical engineering, mechanical design and software development. Must have significant and proven technical and management experience (5+ years). BS or MS in Chemical Engineering or equivalent.

Group Leaders (2), Analytical Chemistry

Must have 3+ years' managing groups of 3-5 scientists and technical proficiency in Mass Spec, HPLC separations, high throughput characterization and purification as well as laboratory automation. Ph.D. Chemistry.

Scientists (2), Pharmacology

BS and 4 years' experience or MS and 2 years' experience in Cellular Pharmacology, Biological Chemistry or Cell Biology with extensive knowledge of and skills in mammalian cell cultures.

BS Associate Scientists MS Scientists Ph.D. Scientists

Needed in the following areas: Analytical Chemistry, Combinatorial Chemistry and Synthetic Chemistry.

Please send your resume, indicating position of interest, to: **ArQule, Inc., Ed Bocko, 200 Boston Ave., Medford, MA 02155.** Fax: 781.395.4438. Email: resumes@arqule.com

ARQULE

Click here for details

www.arqule.com

POSITIONS OPEN

ASSISTANT PROFESSOR MOLECULAR BREEDING/ BIOTECHNOLOGY

The University of Georgia seeks a highly motivated scientist with a strong academic/professional record and communication skills for a 12-month, 100 percent research, tenure-track position emphasizing biotechnology approaches to the improvement of cotton in Georgia, the nation's second largest cotton producer. The successful applicant will participate in graduate student training, and develop an internationally recognized, externally funded research program focusing on the integration of genetic and molecular techniques (especially transformation) to develop superior cotton genotypes, in partnership with classical agricultural disciplines, and with the Applied Genetic Technology Center in Athens. The position is in the Department of Crop and Soil Sciences in Tifton, Georgia. The Tifton campus provides excellent field plots in the prime cotton-growing region of the state and modern laboratory facilities in the National Environmentally Sound Production Agriculture Laboratory. Salary is competitive and commensurate with qualifications and experience.

A Ph.D. in an appropriate discipline is required. Send a cover letter with statements of research interests, a current curriculum vitae, copies of academic transcripts, and at least three letters of reference to: **Cotton Biotechnology Search Committee, Department of Crop and Soil Sciences, 3111 Plant Sciences Building, Athens, GA 30602-7272 USA.**

Applications received by November 1, 1999, are assured of consideration. *The University of Georgia is an Equal Opportunity/Affirmative Action Employer. Minority and female applicants are encouraged to apply.*

DEVELOPMENTAL PLANT BIOLOGY

The Department of Environmental and Plant Biology at Ohio University invites applicants with broad-based training in plant biology with research experience in development to apply for a tenure-track position at the **ASSISTANT PROFESSOR** level beginning September 2000. Candidates are expected to have completed the Ph.D., to have postdoctoral experience, and to develop an externally funded research program that uses molecular, genetic, and/or biochemical approaches to study plant development. The successful candidate will teach upper-division undergraduate/graduate courses in plant biology, participate in introductory courses for majors or non-majors, and provide research opportunities for Doctoral, Master's, and undergraduate students.

Applicants should send by December 1, 1999, their curriculum vitae, a statement of research and teaching interests, reprints of publications, and three letters of recommendation to:

**Chair of the Search Committee
Department of Environmental and Plant Biology
Porter Hall 317
Ohio University
Athens, OH 45701-2979**

E-mail inquiries may be directed to: **James P. Braselton, Chair, e-mail: braselto@ohio.edu; website: www.plantbio.ohio.edu.**

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

RESEARCH ASSOCIATE POSITION NORTHWESTERN UNIVERSITY

An established, NIH-funded wound healing research laboratory invites applications for a Research Associate position to join cutting-edge research in wound healing. Candidates should have Ph.D. degree with molecular biology/cell biology techniques. Experience with growth factor signal transduction research is a plus. The successful candidate must have excellent written/oral communication skills. We provide plenty of opportunities for growth in scientific research.

To apply, send a curriculum vitae with three references to: **Dr. Y. Xia, Northwestern University, 303 East Chicago Avenue, Ward Building, 19th Floor, W-145, Chicago, IL 60611.**

POSITIONS OPEN

ASSISTANT PROFESSOR MOLECULAR AND CELLULAR PATHOGENESIS

The University of Tennessee (UT) Department of Microbiology and Immunology invites applications for two tenure-track positions at the level of Assistant Professor. A candidate is expected to have two to five years of postdoctoral research experience in the molecular and cellular biology of pathogenic bacteria and to develop a high-quality research program with long-term growth potential. Teaching responsibilities, which emphasize quality rather than quantity, include medical, dental, and graduate students. The Department is located in a major medical complex and offers a highly interactive intellectual environment with strong extramural research support. State-of-the-art research facilities within the Department and the UT Molecular Resource Center provide cutting-edge research support services and reagents.

The review of applicants will begin the end of September and will continue until the positions are filled. Applications should consist of curriculum vitae, copies of several recent publications, a brief statement of future research goals, and three letters of reference to be sent to:

**Dr. Terrance G. Cooper
Department of Microbiology and Immunology
The University of Tennessee, Memphis
858 Madison Avenue
Memphis, TN 38163**

Detailed information about the Department may be obtained on the World Wide Web at website: <http://microbiology.utm.edu>.

The University of Tennessee, Memphis is an Equal Employment Opportunity/Affirmative Action/Title IX/Section 504/ADA/ADEA Employer.

ASSISTANT PROFESSOR MICROBIOLOGIST/IMMUNOLOGIST NORTHERN ARIZONA UNIVERSITY

The Department of Biological Sciences is searching for a tenure-track Assistant Professor with an emphasis in microbiology to teach undergraduate courses in immunology and introductory microbiology, and a graduate-level course in his/her area of expertise. The department, which has 250 microbiology majors, strongly emphasizes undergraduate education, and offers a M.S. and a Ph.D. The successful candidate will establish a strong research program with extramural funding and is expected to have experience with and commitment to working with a culturally diverse population of faculty, staff, and students. Send your letter of application, curriculum vitae, statement of teaching philosophy, statement of research interests, and three letters of recommendation to: **Chair, Microbiology/Immunology Search Committee, Department of Biological Sciences, P.O. Box 5640, Northern Arizona University, Flagstaff, AZ 86011-5640.** The position will remain open until filled; however, the committee will begin reviewing applications on October 15, 1999.

CHAIRPERSON DEPARTMENT OF PHARMACEUTICAL SCIENCES College of Pharmacy University of Nebraska Medical Center

Applications and nominations are invited for the position of Chair, Department of Pharmaceutical Sciences, University of Nebraska Medical Center College of Pharmacy. Candidates should possess a Ph.D. in pharmaceutical or related sciences and a record of teaching excellence and research productivity with extramural funding. Candidates should qualify for the rank of Full Professor and show evidence of leadership and administrative skills. Applicants should submit a current curriculum vitae and names of three references to: **Peter R. Gwilt, Ph.D., Chair, Search Committee, College of Pharmacy, University of Nebraska Medical Center, 986000 Nebraska Medical Center, Omaha, NE 68198-6000.** *The University of Nebraska is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minorities.*

POSITIONS OPEN

INSTRUCTOR/ASSISTANT PROFESSOR (RESEARCH). The Renal Division at Rhode Island Hospital is seeking a Ph.D. scientist to join an established basic science research program in renal molecular/cell biology. The successful candidate will develop an independent, externally funded basic science research program and collaborate with current faculty on existing projects. Expertise in the area of cell-matrix interactions and/or control of cell survival/death is desirable. Evidence of research productivity and the ability to attract extramural funding is highly preferred. The successful candidate will devote 90 percent of his/her time to research and also participate in the postgraduate training programs of the division, including supervision of research by students, Residents, and Fellows working in the laboratory. The candidate must qualify for a full-time faculty position at the rank of Instructor or Assistant Professor of Medicine (Research) in the Division of Nephrology, Department of Medicine at the Brown University School of Medicine. Laboratory space and start-up funds will be made available to the successful candidate. Screening will begin immediately and will continue until a candidate is selected or the search is closed. Please send a letter of interest and curriculum vitae to: **Lance D. Dworkin, M.D., Director, Division of Renal Diseases, Rhode Island Hospital, 593 Eddy Street, Providence, RI 02903.** *The Rhode Island Hospital is an Equal Employment Opportunity/Affirmative Action Employer and encourages applications from women, minorities, and protected persons.*

BEHAVIORAL NEUROSCIENTIST

The Department of Biological Sciences at Bowling Green State University invites applications for a tenure-track **ASSISTANT PROFESSOR** position in behavioral neuroscience beginning August 2000. Applicants are expected to have a Ph.D. and postdoctoral experience. All research emphases within the broad area are welcome, but preference will be given to candidates with a primary research interest in the mechanisms of sensory biology and its interface with population biology. The successful applicant will be part of the Center for Neuroscience and Behavior and will be expected to interact with a strong ecology group and to conduct an extramurally funded research program involving M.S./Ph.D. students. Teaching will consist of undergraduate/graduate courses in behavior or population biology/genetics and the area of specialization. Service activity is also expected. Further information about the Department and position can be found at website: <http://www.bgsu.edu/departments/biology/ecology>. Applicants must send a curriculum vitae, statement of research plans and teaching interests, representative reprints, and three letters of reference by November 1, 1999, to: **Eloise Clark, Conservation Genetics 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 disability.*

SCIENTIST BLOOD TESTING TECHNOLOGIES

Héma-Québec is responsible for the collection, testing, and distribution of blood and related products in the province of Québec. As part of its mandate to support operations, the Research and Development Department of Héma-Québec (located in Québec City) invites applications for the position of Scientist. You will be responsible for developing and evaluating nucleic acid-based technologies to detect infectious agents and antigens in blood. A Ph.D. and three years of postdoctoral training in molecular biology or microbiology are required as well as expertise in genomic amplification techniques. Send curriculum vitae and names of three references no later than October 15, 1999, to:

**Héma Québec
Service des Ressources Humaines
4045 Côte-Vertu**

**Ville St-Laurent, Québec H4R 2W7 Canada
FAX: 514-832-1026**

SYMPOSIUM



Max-Planck-Gesellschaft zur
Förderung der Wissenschaften e.V.

Schloßmann Seminar on Mathematical Models in Biology, Chemistry and Physics

Kurhotel Bad Lausick, Germany
20 - 22 May 2000

The fifth Schloßmann seminar will be focused on the crossroad between mathematics, biology, chemistry and physics including the following topics:

- * brain function
- * image processing
- * many-particle systems and materials
- * mathematical biology
- * quantum chemistry and molecular dynamics
- * quantum computers
- * quantum field theory
- * quantum gravitation and cosmology
- * scientific computing

Schloßmann Awards

Young scientists are invited to make challenging research proposals within the fields of the seminar. The scientific committee decides - based on a two-pages exposé - which proposals are accepted for an oral or poster presentation. The most outstanding oral contributions are honoured by awards totalling DM 20 000.

Schloßmann Fellowships

Postdoctoral fellowships (2 years) to be used at suitable Max Planck Institutes are awarded for the most original research proposals at the end of the seminar. In applying for such a fellowship a short curriculum vitae should be submitted in addition to a two-pages exposé.

Admission to the seminar will be limited and will be decided upon by the scientific committee.

Deadline for applications and for submission of the exposé:

January 15th, 2000

For further information please contact:

www.mis.mpg.de or:

Prof. Dr. Eberhard Zeidler,
Max Planck Institute for
Mathematics in the Sciences,
Inselstrasse 22-26

D-04103 Leipzig, Germany

Tel.: +49 341 99 59-612

Fax: +49 341 99 59-614

E-mail: Zeidler@mis.mpg.de

Department of Biological Sciences, Texas Tech University

Applications are invited for five tenure-track faculty positions. Requirements include a doctoral degree, post-doctoral experience, and a commitment to excellence in teaching and research. The strongest candidates will be enthusiastic, interactive scientists. They will be expected to develop research programs and compete successfully for extramural funds.

Bioinformatics (Assistant/Associate Professor). Multidisciplinary research in information systems and communication or biological knowledge as related to all facets of biological sciences. Specific areas of interest may include: biogeographical data sets, collection-based research, epidemiology, genomics, and remote sensing. This individual will be expected to teach in courses suitable to his/her expertise and participate in course and program development.

Eukaryotic Molecular Genetics (Assistant Professor). Research interests in evolution and/or development. This individual will be expected to participate in the general Genetics course and develop an advanced course in his/her specialty.

Molecular Immunology (Assistant Professor). Research interests in any of the following: host-pathogen interactions, auto-immune mechanisms, signal transduction or cell-cell communication. This individual will be expected to teach Immunology, occasionally participate in teaching general Microbiology and develop an advanced course in his/her specialty.

Ecology (Assistant Professor). Research interests in the evaluation and quantification of patterns and processes at the community, ecosystem and/or landscape levels. This individual will be expected to teach in the ecology and environmental sciences curriculum and develop an advanced course in his/her specialty.

The fifth position is for a **Curriculum Specialist in Biology** (Assistant Professor). Area of scientific interest is open, but should be compatible with departmental strengths. This individual will be expected to develop and coordinate innovative lecture/laboratory courses for non-majors and seek extramural support for curriculum development.

Applications should include a letter indicating the position being applied for, statements of research and teaching goals, and curriculum vitae. Three letters of recommendation are required. Review of completed applications will begin on October 31st, 1999. For full consideration, applications and letters of recommendation must be received by October 31st, 1999. All correspondence should be sent to: **Dr. Carleton J. Phillips, Chairperson, Department of Biological Sciences, Mail Stop 3131, Texas Tech University, Lubbock, TX 79409-3131.** Texas Tech is sensitive to needs of dual career couples and is an affirmative action institution. Members of underrepresented groups are encouraged to apply.

MEETINGS

Seventh Meeting of the European Society of Gene Therapy (formerly EWGT)

November 26 - 28, 1999
Munich, Germany

SYMPOSIUM:

Vectors • Cancer

Gene Therapy of Cardiovascular Disorders,

Lung Disorders, Neuromuscular Disorders,

Genetic Diseases and Infectious Diseases,

Haematopoietic Cell Gene Therapy

Regulated Gene Expression

SATELLITE MEETINGS:

European Society of Animal Cell Technology (ESACT)

European Regulation of Gene Therapy

EWGT Web Site: <http://www.cbt.ki.se>

For more information
please contact the conference organizer

INTERPLAN

Congress, Meeting & Event Management

Albert-Rosshaupter-Str. 65 / D-81369 Munich

Tel. +49 / 89 / 54 82 34 - 0

Fax +49 / 89 / 54 82 34 - 44

e-mail: info@i-plan.de



MAYO CLINIC RESEARCH FELLOW

A postdoctoral research position is available in the laboratory of Dr. Jeffrey L. Platt of the Transplant Immunology Program at Mayo Clinic in Rochester, Minnesota. Applicant must have a PhD and/or MD and should have experience in the fields of immunology, molecular biology, cellular physiology and either carbohydrate or protein biochemistry. Experience in handling animals would be advantageous. Send a current curriculum vitae, bibliography, a description of research experience and three letters of recommendation to:

Laurie Dempsey, PhD
Transplantation Biology
Mayo Clinic
200 First Street SW
Rochester, MN 55905

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

POSITIONS OPEN

Grinnell College invites applications for a tenure-track position in biochemistry at the **ASSISTANT PROFESSOR** level beginning August 2000. The appointee will be expected to teach biochemistry, participate in teaching organic and introductory chemistry, and be involved in the development of our new biological chemistry major. A Ph.D. in biochemistry or a related field is required. In their applications, candidates should address their interests in teaching and research at an undergraduate, liberal arts environment that emphasizes close faculty-student interaction. Laboratory facilities and instrumentation for teaching and research are excellent, and start-up funds are available. To be assured of consideration, send curriculum vitae, undergraduate and graduate transcripts, a statement of teaching interests/philosophy, and a research proposal. Arrange to have three letters of recommendation sent to: **Martin Minelli, Chair, Department of Chemistry, Grinnell College, Grinnell, IA 50112-0806** by October 15, 1999. Telephone: 515-269-3007 or -3047; FAX: 515-269-4285; e-mail: minelli@grinnell.edu. For information about the institution see website: www.grinnell.edu. Grinnell College is an Equal Opportunity/Affirmative Action Employer committed to employing a highly qualified staff that reflects the diversity of the nation. No applicant shall be discriminated against on the basis of race, national or ethnic origin, age, gender, sexual orientation, marital status, religion, creed, or disability.

ASSISTANT PROFESSOR MOLECULAR GENETICS Department of Molecular, Cellular, and Developmental Biology University of California, Santa Barbara

We invite applications for a tenure-track faculty position in our expanding research programs in molecular, cellular, and developmental biology. We seek candidates using a molecular genetic approach to study fundamental biological problems in a variety of areas including cancer biology and microbiology. The position is to be filled at the Assistant Professor level. The Ph.D. degree plus relevant postdoctoral research experience are required. The appointee will be expected to lead a vigorous independent research program and to participate effectively in undergraduate and graduate instructional activities.

Submit curriculum vitae, selected reprints, a brief description of previous and anticipated research, and arrange to have at least three letters of reference sent to: **Faculty Search Committee, Department of Molecular, Cellular, and Developmental Biology, University of California, Santa Barbara, CA 93106**. Review of applications will begin November 15, 1999, and will continue until the position is filled. Website: <http://lifesci.ucsb.edu/MCDB/facrecruit.html>. UCSB is an Equal Opportunity/Affirmative Action Employer.

DIRECTOR OF THE MICROSCOPY AND IMAGING SERVICES CENTER

The University of Texas Southwestern Medical Center at Dallas is seeking applications and nominations for Director of the Microscopy and Imaging Services Center at the level of Assistant Professor. This position is either a tenure-track or research-track position, depending on experience. The facility serves the research needs of basic and clinical scientists on campus. Incumbent would be responsible for managing the budget and the technical and service support for multiple electron microscopes and advanced light microscopy instrumentation. Applicants must have an earned Ph.D. with expertise in the life sciences and previous experience in both electron and light microscopic imaging. Strong leadership and interpersonal skills are also required.

Applicants should send a complete curriculum vitae, statement of research interests, recent reprints, and three letters of reference by December 15, 1999, to: **Dr. Kate Luby-Phelps, The University of Texas Southwestern Medical Center at Dallas, 5323 Harry Hines Boulevard, Dallas, TX 75235-9039**. E-mail: katherine.luby-phelps@email.swmed.edu. Equal Opportunity Employer.

POSITIONS OPEN



MANAGER W. M. KECK FOUNDATION BIOIMAGING LABORATORY

The W. M. Keck Bioimaging Laboratory at Arizona State University seeks applications for a full-time Manager who will oversee the daily operations of a multi-user facility dedicated to the application of new imaging techniques to research in the biological, medical, and bioengineering fields. This is a state-funded continuing-track position. The successful candidate must have at a minimum a M.S. degree, at least three years of experience in bioimaging, and experience in using computer software and hardware dedicated to imaging tasks. In addition, the candidate must have the demonstrated ability to conduct training sessions, and to assist in writing grant proposals on behalf of the Laboratory. Demonstrated ability to conduct independent or collaborative research and a Ph.D. in a life science discipline are desired. This position is intended to provide up to 20 percent time for collaborative research in bioimaging. Salary will be competitive and commensurate with experience. Applicants must submit a curriculum vitae, a statement of experience and research interests in bioimaging, appropriate reprints if available, and arrange to have three letters of recommendation sent to: **Dr. Douglas E. Chandler, Director, W. M. Keck Bioimaging Laboratory, Arizona State University, Department of Biology, P.O. Box 871501, Tempe, AZ 85287-1501**. Application deadline is October 22, 1999, with applications reviewed weekly thereafter until the position is filled. Arizona State University is an Affirmative Action/Equal Opportunity Employer.

CORPORATE POSITION IN CELL BIOLOGY/MOLECULAR BIOLOGY

A leading beauty products company in the Northeast region invites candidates with a Ph.D. in cell biology or molecular biology to apply for a one-year assignment, with a possible extension to a second year. Candidates must have extensive cell culture experience and will be expected to develop effective *in vitro* screening systems. We are seeking individuals who are capable of working independently and effectively under pressure and who possess excellent written and verbal communication skills. Experience with keratinocytes, sebocytes, fibroblasts, organotypic systems, frozen and fixed sectioning and immunohistochemistry, and knowledge of enzyme biochemistry, are desirable. The successful candidate will be expected to work largely without supervision to perform a variety of cell-based assays using both primary cells and cell lines. Candidates may be asked to develop novel assays, or to troubleshoot difficult cell culture conditions, and will be expected to submit written reports of their results.

For best consideration, applications should be received before October 18, 1999. Candidates should send a detailed curriculum vitae, a statement of research interest and goals, and three reference letters to: **Box #84, 1200 New York Avenue N.W., Room 914, Washington, DC 20005**.

HEALTH RESEARCH ANALYSTS

ECRI, a nonprofit health services research organization, seeks individuals with the ability to work within a team-oriented "think tank" to assess the effectiveness and cost-effectiveness of medical devices, drugs, and procedures. Ph.D. in life or social sciences, ability to critically evaluate medical literature, excellent writing skills, and ability to simultaneously work on several projects. Knowledge of at least intermediate-level statistics or computer modeling required. Qualified applicants must complete a 25-page test report for which there is a small honorarium. Résumés and cover letter to: **Department CT, ECRI, 5200 Butler Pike, Plymouth Meeting, PA 19462**. FAX: 610-834-1275. Equal Opportunity Employer/Affirmative Action.

POSITIONS OPEN

ASSISTANT OR ASSOCIATE PROFESSOR INSECT SYSTEMATICS SCHOOL OF INTEGRATIVE BIOLOGY University of Illinois at Urbana-Champaign

The School of Integrative Biology at the University of Illinois in Urbana-Champaign invites applications for a full-time, tenure-track faculty position in insect systematics and evolutionary biology at the Assistant or Associate Professor level. We seek individuals developing or using modern systematic approaches such as molecular phylogenetic methods. Candidates must have broad training in insect systematics and evolution, a demonstrated record of research excellence and productivity, and demonstrated record of or potential for obtaining external funding. A Ph.D. is required and postdoctoral experience is preferred. This position will be in the Department of Entomology and starts August 21, 2000.

The successful applicant will be expected to develop and maintain a vigorous, independently funded research program. Responsibilities will include teaching a graduate-level course in insect systematics, contributing to an advanced course on principles of systematics, and participation in teaching undergraduate biology. Interactions with colleagues in the Illinois Natural History Survey and elsewhere on campus are encouraged. Salary will be commensurate with experience. To ensure full consideration applications must be received by October 29, 1999. Applicants should submit a curriculum vitae and statements of research and teaching interests, and arrange to have three letters of reference sent to: **Dr. Stewart Berlocher, Chair, Systematics Search Committee, School of Integrative Biology, University of Illinois, 286 Morrill Hall, 505 South Goodwin Avenue, Urbana, IL 61801**. Telephone: 217-333-3044; FAX: 217-244-1224; e-mail: stewartb@live.uiuc.edu.

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

NATIONAL INSTITUTES OF HEALTH NATIONAL CANCER INSTITUTES

STAFF SCIENTIST/SENIOR STAFF SCIENTIST. Position is available for a qualified candidate with three to seven years of postdoctoral experience interested in using fission yeast *Schizosaccharomyces pombe* as a model system to study the mechanism by which cells export their mRNA out of the nucleus. Experience in molecular biology and/or yeast genetics and/or protein biochemistry is important. Strong written and verbal skills are a must. Salary range for this position ranges from \$45,000 to \$65,000 depending on qualifications and experience.

POSTDOCTORAL POSITION. For a M.D. or Ph.D. is also available to study the mechanism of mRNA export using fission yeast as a model system. The salary range for this position is between \$29,000 to \$35,000 plus health insurance benefits.

Interested candidates please send your résumé to:

**Ravi Dhar, Ph.D.
Laboratory of Basic Science
National Institutes of Health
National Cancer Institutes
Building 41/Room A222
Bethesda, MD 20892
E-mail: dharr@dc41.nci.nih**

NIH is an Equal Opportunity Employer.

POSTDOCTORAL POSITION available for the application of ³¹C-magnetic resonance spectroscopy to the study of cardiovascular disease. Project is the determination of flux rates through a number of pathways for intermediary energy metabolism in the heart. Experience with either NMR spectroscopy, or cardiovascular physiology/biochemistry required. Send curriculum vitae and three references to: **John R. Forder, Ph.D., Center for NMR Research and Development, CNIR Building, 828 Eighth Court South, The University of Alabama at Birmingham, Birmingham, AL 35294-4470**. UAB is an Equal Opportunity/Affirmative Action Employer.

Hong Kong Institute of Biotechnology Limited

MANAGING DIRECTOR

The Hong Kong Institute of Biotechnology Ltd. (HKIB), located on the campus of The Chinese University of Hong Kong, is a private, non-profit-making company engaged in downstream process development and biopharmaceutical manufacturing. Our mission is to promote the development of a successful biotechnology industry in the HKSAR.

The Directorship: The Managing Directorship will be a full-time appointment with residence in Hong Kong. The successful candidate should have academic qualifications equivalent to those normally expected of a full professor at a major university. Additionally, experience in the development or commercialization of biotechnology-based products is highly desirable.

Remuneration and Benefits: This is a fixed term renewable contract appointment. We offer a competitive remuneration package. Salary will be commensurate with qualifications and experience with a minimum of HK\$1,229,280 per annum. Benefits include annual leave of 21 days; a contract-end gratuity; housing benefit; medical/dental care and leave passage benefits for appointee and eligible dependents; and education allowance for dependent children.

(Approximate exchange rate in September 1999: US\$=HK\$7.75, £1=HK\$12.5).

Application Procedure: Applicants should submit a curriculum vitae with the names and addresses of at least 3 referees and contact telephone numbers (and e-mail addresses, if available) to Professor Arthur K C Li, Directorship Search Committee, Hong Kong Institute of Biotechnology Limited, 2 Biotechnology Avenue, 12 Miles, Tai Po Road, Shatin, New Territories, Hong Kong. Closing date for application is **23 October 1999**.

The Centers for Disease Control and Prevention, National Center for Infectious Diseases, Division of Viral and Rickettsial Diseases, Hepatitis Branch, Molecular and Immunodiagnostic Section, Hepatitis Reference Laboratory Unit (HRLU) is currently seeking applications for a Microbiologist, GS-403-13 to serve as a Lead Scientist in charge of the Unit, HRLU. This position is located in Atlanta, Georgia at the Roybal Campus. As Lead Microbiologist, he/she will supervise at least five scientists and service fellows and will be responsible for the primary leadership of viral hepatitis diagnosis in the support of epidemiologic and laboratory research. The Lead Microbiologist will be responsible for: ensuring that the HRLU provides high level diagnostic capability and capacity using commercially available immunodiagnostic and molecular diagnostic tests, as well as, tests available for research use only in support of laboratory and epidemiologic research activities; as necessary, will be responsible for ensuring that new diagnostic tests are appropriately evaluated prior to their routine use; and will be expected to develop collaborative research activities with other Branch sections, other governmental agencies, academia or non-governmental organizations to evaluate the performance of immunodiagnostic and molecular diagnostic tests in the public health setting both domestically and internationally and to assist in making recommendations for their use. In addition, the HRLU serves as a reference laboratory to resolve problems with test results obtained by other laboratories, including those from other governmental agencies, state and local health departments, and other countries. Salary range is from \$57,381 to \$74,594.

Qualifications preferred include scientific accomplishments and experience in the areas of relevant research, and experience in leading a research program as well as personnel.

Further information can be obtained from Richard Conlon, Deputy Chief, Hepatitis Branch, Division of Viral and Rickettsial Diseases, National Center for Infectious Diseases, Centers for Disease Control and Prevention, 1600 Clifton Road, Atlanta, Ga, 30333, Telephone: 404-639-2339; Fax 404-639-1563; or E-mail: roc4@cdc.gov.

Candidates interested in the position should send their curriculum vitae in confidence along with the names of three professional references to Centers for Disease Control and Prevention, Attention Ms. Benita Minor, MS C-19, 1600 Clifton Road, Atlanta, Ga, 30333 or by E-mail to BKM7@CDC.gov

CDC is an Equal Opportunity Employer and provides a smoke-free environment.

EUROPEAN OPPORTUNITIES

United Nations Framework Convention on Climate Change Secretariat, Bonn, Germany, seeks Coordinator to direct and manage the Science and Technology Programme's staff, financial resources and activities (in doing so applies prevailing policy, regulations, rules on finance, personnel matters). Directs secretariat work programmes in areas of methodologies, science and development, deployment/application and transfer of technology related to climate change. Leads secretariat in sessions of Subsidiary Body on Science and Technological Advice (SBSTA), representing the secretariat therein, ensures that SBSTA and its Bureau are provided with support and documentation necessary for smooth functioning by maintaining regular contact with Bureau members and delegations on work of SBSTA. Ensures the cooperation of various components of Science and Technology programme with organizations, bodies, processes and persons competent in methodologies science and technology, including intergovernmental Panel on Climate Change. Performs other duties, as assigned, including replacing the Executive Secretary during absences.

Requirements: Advanced university degree in economics, engineering, environmental sciences or a related discipline. Extensive governmental experience of policy-making in climate change area. In-depth knowledge of Intergovernmental Panel on Climate Change activities, methodologies for the estimation of greenhouse gas emissions and establishment of emissions inventories. At least 15 years relevant experience, of which five to six years at international level with managerial experience at a comparable (senior) level. Fluency in English. Working knowledge of French and other United Nations languages desirable.

Applications to Chief of Administration, UNFCCC Secretariat, P.O. Box 260124, 53175 Bonn, Germany preferably by **facsimile** to 49-228-815-1999 or by E-mail to: ekeip@unfccc.de for Attention: Chief of Administration. **Deadline for application: 14 October 1999.**

UNIVERSITY OF GOETTINGEN

Department of Cardiovascular Physiology

PhD Studentship or Postdoctoral Position (BAT 11A/2)

A two year PhD studentship or a part-time postdoctoral position with the possibility of extension is available to study the role of endothelin-I and its receptors in hypertension-induced vascular remodeling and in the occlusion of venous bypass grafts. The project focuses on the control of pressure/stretch-induced gene expression in appropriate cell and organ culture models and its exploitation for the development of new therapeutic strategies. The successful candidate will have a diploma, MSc degree or equivalent in a relevant subject area (i.e., biology, molecular biology, pharmacology, physiology), previous experience in modern cell and molecular biology techniques is desirable. For the postdoctoral position, a PhD degree or equivalent is mandatory.

Further general information can be obtained by telephoning (+49-551-395896) or from the Department website <http://www.veg-physiol.med.uni-goettingen.de>. Informal enquiries can also be addressed to hecker@veg-physiol.med.uni-goettingen.de.

Applications, including a CV and the names and addresses of two academic referees should be sent to:



Professor M. Hecker
Abteilung Herz- und Kreislaufphysiologie
Georg-August-Universität Goettingen
Humboldtallee 23, 37073 Goettingen, Germany

The closing date for applications is 29th October 1999.

POSITIONS OPEN

STAFF SCIENTISTS

Diversa Corporation, located in San Diego, is a leader in the development of cutting-edge technologies for the discovery and commercialization of robust enzymes and small molecules with application in the agricultural, chemical, and pharmaceutical industries.

We are seeking motivated, team-oriented science professionals with good oral and written communication and laboratory skills at the Ph.D. level to join our Research and Development team.

STAFF SCIENTIST MOLECULAR BIOLOGY

Successful candidates will have a strong academic and/or industrial background in the area of molecular lambda or other phage biology. In addition, recombinant DNA technology expertise involving phage systems is highly desirable.

STAFF SCIENTIST MICROBIOLOGY

Successful candidates will have a strong academic and/or industrial background in the area of bacterial systematics, microbial ecology, and soil microbiology. In addition, recombinant DNA technology expertise is highly desirable.

Diversa offers attractive salaries, comprehensive benefits, stock options, and a dynamic work environment. Please send your résumé with salary requirements and contact information for three or more references to:

Diversa Corporation
Attention: Human Resources
Job Code: 99-phage
10665 Sorrento Valley Road
San Diego, CA 92121
FAX: 858-623-5150

Equal Opportunity Employer.

CORPORATE POSITION IN CELL BIOLOGY/MOLECULAR BIOLOGY

A leading beauty products company in the Northeast region invites candidates with a Ph.D. in cell biology or molecular biology to apply for a one-year assignment, with a possible extension to a second year. Candidates must have a good knowledge of molecular biology techniques, especially in the areas of extracting and handling RNA, but also in PCR, Southern, Northern, and Western blotting, and some cell culture experience. Experience with differential gene expression systems (e.g., clonotect, gene arrays), nonradioactive detection systems, frozen sectioning, immunohistochemistry, and fluorescent *in situ* hybridization (FISH) is desirable. We are seeking individuals who are capable of working independently and effectively under pressure and who possess excellent written and verbal communication skills. The successful candidate will be expected to work largely without supervision to perform a variety of cell culture-based gene arrays for differential gene expression and to provide skilled analysis of these arrays. Candidates may be required to develop or test novel detection systems (i.e., nonradioactive) and will be expected to submit brief written reports of their results.

For best consideration, applications should be received before October 18, 1999. Candidates should send a detailed curriculum vitae, a statement of research interest and goals, and three reference letters to: **Box #85, 1200 New York Avenue N.W., Room 914, Washington, DC 20005.**

RESEARCH SUPPORT SPECIALIST with electrical engineering and auditory neuroscience background. Perform research on otoacoustic emissions, whole-cell recording from spiral ganglion neurons and hair cells. Minimum of M.A. degree and five years of experience. Background in electrophysiology, surgery, Pascal, Turbo C, assembly language, statistics, and electronic instruments. Send curriculum vitae to: **R. Salvi, SUNY at Buffalo, Hearing Research, 215 Parker Hall, Buffalo, NY 14214.** The Research Foundation of SUNY is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

INTERESTED IN CLINICAL OR POSTDOCTORAL RESEARCH TRAINING?

The National Institutes of Health has both! For more information, visit our website which lists an array of clinical and postdoctoral opportunities, including tenure-track positions.

<http://www.training.nih.gov>

The NIH is an Equal Opportunity Employer.

ARENA PHARMACEUTICALS

Emerging San Diego-based biotechnology company is seeking candidates for the following positions:

BEHAVIORAL PHARMACOLOGIST, RESEARCH ASSOCIATE. This position requires a B.Sc. or M.Sc. level with prior training in behavioral pharmacology. Main responsibilities will include the evaluation of novel compounds in rodent models of learning/memory, anxiety, and pain. The candidate will also participate in the development of *in vivo* models to support novel therapeutic targets and will assist in improving through-put of *in vivo* evaluation. Experience with stereotaxic surgery required. Knowledge of operant behavior and computer programming desirable. Job Code: FM1.

BEHAVIORAL PHARMACOLOGIST, SCIENTIST. This position requires a Ph.D. with two-plus years of experience in behavioral pharmacology. Main responsibilities will include the characterization of *in vivo* function of orphan GPCRs and the evaluation of novel compounds in rodent models. Experience in operant behavior and stereotaxic surgery required. Expertise in rodent models of attention and learning/memory preferable. Excellent organizational and teamwork skills required. Job Code: FM2.

Arena offers an exciting work environment, competitive salary, excellent benefits package, including 401(k) and stock options.

Send or FAX résumé to: **6166 Nancy Ridge Drive, San Diego, CA 92121. FAX: 858-453-7210.**

The Thad Cochran National Center for Natural Products Research School of Pharmacy, The University of Mississippi, is seeking qualified applicants for the following research and development positions: **FIELD AGRONOMIST, HORTICULTURIST, and FIELD BOTANIST.** Positions are located at the Center's medicinal plant garden, and are in support of an existing program (three years) subject to continued funding. Starting dates are negotiable and positions remain open until filled.

Interested individuals may access position descriptions on the University website: www.olemiss.edu but should request full announcements and application materials from: **Administrative Manager, Thad Cochran Research Center, Room 1025, The University of Mississippi, Oxford, MS 38677. Telephone: 662-915-7250.**

The University of Mississippi is an Equal Opportunity Employer/Title VI/Title IX/Section 504/ADA/ADEA Employer.

ASSISTANT MEMBER POSITION TAMPA BAY RESEARCH INSTITUTE

Available in the Laboratory of Virology to study the molecular biology of the human viruses (Herpes and Hepatitis C). Candidates with a Ph.D. or M.D.-Ph.D. and experience in molecular biology are encouraged to apply. Applicants should send a curriculum vitae, research goals, and three references to: **Chairman, Search Committee, Tampa Bay Research Institute, 10900 Roosevelt Boulevard, St. Petersburg, FL 33716.**

ACTING PROGRAM MANAGER. SFB NERR/Tiburon, California. The Acting Program Manager has primary responsibility for accomplishing the final designation of the San Francisco Bay National Estuarine Research Reserve (SFB NERR) and is based at the Romberg Tiburon Center. For full position description, visit our website: <http://rtc.sfsu.edu>. Equal Opportunity Employer.

POSITIONS OPEN

DANA-FARBER CANCER INSTITUTE HARVARD MEDICAL SCHOOL

A **POSTDOCTORAL POSITION** is available to study the molecular basis of genomic instability in the human cancer susceptibility syndrome, Fanconi Anemia (**Kupfer et al, Nature Genetics 17:487, 1997; Yamashita et al, PNAS 95:13085, 1998; Garcia-Higuera et al, AICB 19:4866, 1999**). A background in cell biology, molecular biology, and DNA repair enzymology is preferred. Send curriculum vitae and the names of three references to: **Dr. Alan D'Andrea, Dana-Farber Cancer Institute, 44 Binney Street, Boston, MA 02115. E-mail: alan_dandrea@dfci.harvard.edu.**

POSTDOCTORAL POSITIONS are available in signal transduction and cell cycle regulation at the University of Cincinnati, College of Medicine. Signaling pathways leading to chromosome and genomic instability and effectors of G2/M transition are two areas of emphasis. Candidates must have a strong research background in cell and molecular biology and experience in protein/protein interactions. Applicants should send a curriculum vitae and names and addresses of three referees to: **Dr. Peter J. Stambrook, Chairman, Department of Cell Biology, Neurobiology and Anatomy, University of Cincinnati, College of Medicine, Cincinnati, OH 45267-0521. E-mail: peter.stambrook@uc.edu.**

POSTDOCTORAL POSITIONS available to study developmental regulation of the pituitary-adrenal and renin-angiotensin systems. Research will examine mechanisms controlling gene and protein expression in primary cell cultures, secretion of proteins and steroids by isolated cells, and G protein-coupled receptor function. Experience in cell culture and molecular biology essential. Send curriculum vitae and names of three references to: **Dr. Jim Rose, Department of Obstetrics and Gynecology, Wake Forest University School of Medicine, Winston-Salem, NC 27157. E-mail: jimrose@wfubmc.edu; FAX: 336-716-6937. Equal Opportunity/Affirmative Action Employer.**

Two **POSTDOCTORAL POSITIONS** in soil ecology available immediately to study plant roots and soil C&N. A Ph.D. in ecology, soil science, or a related field, and abilities to execute research projects and to publish results are required. Experience in isotope methods, minirhizotron techniques, and rhizosphere processes is desired. Send applications (a curriculum vitae, statement of research interests, copies of publications, and names, addresses, telephone numbers, and e-mail addresses of three references) to: **W. Cheng, Environmental Studies Department, University of California, Santa Cruz, CA 95064. E-mail: wxcheng@cats.ucsc.edu** for inquiry. Review of applications will begin October 29, 1999.

POSTDOCTORAL POSITION

Postdoctoral-level Molecular Biologist to study HIV-1 in human brain, in a project directed at understanding envelope-chemokine receptor interactions in neurological disease. Expertise with high-sensitivity PCR techniques is essential, and experience with HIV-1 and/or immunohistochemistry is desirable. Send letter, curriculum vitae, and three references to: **Dr. R. Collman, University of Pennsylvania School of Medicine, 36th and Hamilton Walk, Philadelphia, PA 19104-6060. FAX: 215-573-4446.**

RESEARCH ASSOCIATE

Available in the Department of Plant Pathology, Rutgers University to examine molecular biology of viruses of plant pathogenic fungi. Candidates with a Ph.D. and expertise in mycology, virology, or molecular biology are encouraged to apply. Applicants should send application letter, curriculum vitae, and three letters of reference to: **Dr. Brad Hillman, Plant Pathology Department, Foran Hall, 59 Dudley Road, New Brunswick, NJ 08901-8520. E-mail: hillman@aesop.rutgers.edu.**



UNITED ARAB EMIRATES UNIVERSITY FACULTY OF MEDICINE AND HEALTH SCIENCES

Applications are invited from suitable candidates to fill the following position:

Chief Technician (Grade 3)

The Faculty, which has recently moved into newly built premises, has a complement of mass spectrometry and other modern analytical instruments, which are unique to the United Arab Emirates. Helping to develop our capabilities still further, applicants for this position should have a Master's Degree in Chemistry or allied subjects. A minimum of eight years of experience in a laboratory environment is required, out of which three years should be in running and maintaining one of the following instruments: GC/MS, IR-MS, ICP-MS. Working knowledge of other analytical and chromatographic techniques would be favourable.

The successful candidate will be offered a tax-free salary, free accommodation, furniture allowance, annual air passage and an end of service bonus. Interested applicants may forward their curriculum vitae together with the names and addresses of two professional referees and a covering letter with an indication of current salary to:

The Personnel Department
Faculty of Medicine and Health Sciences, UAE University
P O Box 17666, Al Ain, United Arab Emirates
Fax No. 00971-3-672001

Applications will be closed 3 weeks after the date of publication.



THE UNIVERSITY OF QUEENSLAND

CENTRE FOR MOLECULAR AND CELLULAR BIOLOGY

Postdoctoral Fellowships

Applications are sought from qualified scientists interested in post-doctoral positions within the laboratories of Professor David Hume and Professor Brandon Wainwright. The projects concern the molecular genetics of macrophage-specific gene expression, particularly the identification of genes that control the pattern and magnitude of responses to bacterial lipopolysaccharide.

The minimum qualification requirement is a PhD with experience in relevant molecular biology techniques. Preference will be given to candidates with experience in microarray technologies or related approaches to the study of gene regulation or genome scanning. The positions will be available for two years in the first instance.

Salary range: A\$42,769 – A\$45,911 per annum.

Further information about the Centre may be obtained from our website: <http://www.cmcb.uq.edu.au/cmcb>. Further information about the positions may be obtained by contacting Professor David Hume, on telephone +61-7-3365-4493 or email d.hume@cmcb.uq.edu.au.

Applications including a curriculum vitae, the names of three (3) professional referees, and quoting **Reference No. 51599** should be forwarded to Ann Day, Business Manager, Centre for Molecular and Cellular Biology, The University of Queensland, Brisbane Qld 4072 Australia.

Closing date for applications: 18 October 1999.

WORLD CLASS: BE PART OF IT



香港城市大學
City University
of Hong Kong



Anniversary
十五週年慶

City University of Hong Kong is a young and dynamic institution directly funded by the Government of the Hong Kong Special Administrative Region through the University Grants Committee (Hong Kong). Its strategic plan is an ambitious one, reflecting its aspirations to become one of the leading universities in the Asia-Pacific region by achieving excellence in teaching and research. The student population for 1999-2000 is approximately 16,200 (11,000 full-time and 5,200 part-time). The medium of instruction is English.

Applications are invited for the following post:

Head of Department of Biology and Chemistry [Ref. A/330/29]

The Department of Biology and Chemistry, with 26 faculty members, runs three undergraduate programmes and one postgraduate programme for over 350 students. The Department places equal emphasis on teaching and research. Focusing on marine science and coastal pollution, research of the Department is built upon the interdisciplinary strength of biology and chemistry. Staff expertise lies in various disciplines of modern biology and chemistry with emphasis on marine and coastal biology; pollution biology and chemistry; ecotoxicology; analytical and environmental chemistry.

A world class scientist with an outstanding record related to one or more of the academic disciplines of the Department is sought to fill this position. The appointee must possess substantial experience as a senior academic of international standing with demonstrated records in both teaching and research. He/She will be expected to provide strong leadership in further developing the Department as a research centre of international status.

The University also accepts nominations and reserves the right not to fill this position.

Salary and Conditions of Service

The successful candidate is expected to be appointed at the professorial level on superannuable terms with provision for retirement benefits, or on fixed-term contract with contract-end gratuity. Salary will be competitive and be commensurate with the appointee's qualifications and experience. Concurrently, the appointee will be offered the headship appointment for an initial term of three years. Generous fringe benefits include annual leave, housing, passage allowance and medical and dental care provision.

Application and Information

Further information on the post and the University is available on the University's World Wide Web page <http://www.cityu.edu.hk> or the University's listserver accessed by E-mail at hrmail@cityu.hk, or from the Human Resources Office, City University of Hong Kong, Tat Chee Avenue, Kowloon, Hong Kong (Fax : (852) 2788-1154 or (852) 2788 9334/ E-mail: hrrecrut@cityu.edu.hk). Please send your application in the form of an application letter enclosing a current curriculum vitae and the names and addresses of three academic referees at full professorial or other appropriate level to the Human Resources Office. The closing date for application is **31 January 2000**. Please quote the reference of the post in the application and on the envelope.

POSITIONS OPEN

POSTDOCTORAL POSITIONS EUNICE KENNEDY SHRIVER CENTER

Funded Postdoctoral positions available to study alternative splicing of the neuronal-specific human tau gene, whose misregulation causes frontotemporal dementia. Candidates should have a Ph.D. with experience in molecular and cellular biology; knowledge of protein purification and antibody techniques is desirable.

The Shriver Center, located in suburban Boston, is an affiliate of Massachusetts General Hospital and Harvard Medical School. The Department of Biomedical Sciences provides extensive core facilities and many opportunities for scientific interactions.

Please send curriculum vitae and the names and telephone numbers of three references to: Athena Andreadis, Ph.D., Eunice Kennedy Shriver Center, Biomedical Sciences, Room 205, 200 Trapelo Road, Waltham, MA 02452. FAX: 781-894-9968; e-mail: aandreadis@shrivers.org. Visit our website: www.shrivers.org.

POSTDOCTORAL FELLOWSHIPS. Harvard Medical School, Brigham and Women's Hospital. Two positions are available with Gail K. Adler, M.D., Ph.D. to study hormonal mechanisms of cardiovascular injury, and with Ursula B. Kaiser, M.D. to study the molecular mechanisms of regulation of gonadotropin gene expression, pituitary hormones that control reproductive function. Applicants should have a M.D. and/or Ph.D., molecular biology experience preferred. *Funding requires U.S. citizenship or permanent resident status.* Send curriculum vitae and names of three references to the desired Laboratory Head at: Endocrine-Hypertension Division, 221 Longwood Avenue, Boston, MA 02115. FAX: 617-732-5764; e-mail: gadler@rics.bwh.harvard.edu or ukaiser@rics.bwh.harvard.edu. *Brigham and Women's Hospital is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION UCLA-NEUROBIOLOGY

Position available to study the role of astroglial cells in the neural response to injury in transgenic mouse models (*Cell* 93:189, 1998; *Neuron* 23:297, 1999), with particular focus on neuroprotection and axon regrowth. Preference will be given to those with experience in molecular techniques related to the generation of transgenic mice and/or microsurgical and histological techniques as applied to the mouse central nervous system. Interview possible at 1999 Society for Neuroscience meeting in Miami. Send curriculum vitae to: Michael Sofroniew, M.D., Ph.D., UCLA Department of Neurobiology, Los Angeles, CA 90095-1763. FAX: 310-825-2224; e-mail: sofroniew@mednet.ucla.edu.

POSTDOCTORAL POSITION

Immediate opening for a skilled and highly motivated individual to investigate the biochemical basis of tree nut-induced allergies. Must have a Ph.D. and experience in biochemistry or immunology. Experience in purification and characterization of proteins and antibodies and in epitope characterization is highly desirable. Salary and benefits are competitive and the USDA-funded position is renewable for up to three years. Please send cover letter, curriculum vitae, and three references to: Prof. K. H. Roux, Department of Biological Science, Florida State University, Tallahassee, FL 32306-4370. FAX: 850-644-0481; e-mail: roux@bio.fsu.edu. *FSU is an Equal Opportunity/Affirmative Action Institution.*

POSTDOCTORAL POSITION is available to study DNA repair mechanisms and their genetic regulation. Requires strong background in biochemistry and molecular biology. Send curriculum vitae and names, telephone numbers, and e-mail addresses of three references to: Michael Volkert, Ph.D., Department of Molecular Genetics and Microbiology, University of Massachusetts Medical School, Worcester, MA 01655. E-mail: michael.volkert@umassmed.edu.

POSITIONS OPEN



POSTDOCTORAL RESEARCH FELLOW

Position available now to investigate biochemistry of DNA repair enzymes, specifically structure/function relationships of apurinic endonuclease. Theoretical background in enzyme kinetics preferred. Technical background in protein chemistry and/or molecular biology required. Please send curriculum vitae, brief summary of research interests, and three letters of recommendation to: Dr. Phyllis R. Strauss, Department of Biology, Northeastern University, Boston, MA 02115. *Northeastern University is an Equal Opportunity/Affirmative Action/Title IX Employer.*

BIOPHYSICAL CHEMIST

The National Heart, Lung, and Blood Institute is recruiting for a **SENIOR POSTDOCTORAL POSITION** to perform thermodynamic measurements on biological macromolecules and complex systems. The candidate should have training and expertise in calorimetry, fluorometry, circular dichroism, spectroscopy, and ultracentrifugation. Particular expertise in computer programming is desirable. The candidate should have prior experience in protein purification, enzymology, and some knowledge of nucleic acid chemistry. Applicants should have a Ph.D. and not more than five years of postdoctoral experience. Submit curriculum vitae and references to: Ann Ginsburg, Ph.D., Chief, Protein Chemistry Section, Laboratory of Biochemistry, 3 Center Drive, MSC 0340, Building 3, Room 208, Bethesda, MD 20892-0340. E-mail: aog@cu.nih.gov.

POSTDOCTORAL FELLOWSHIPS SLOAN-KETTERING INSTITUTE

Our laboratory is focused on defining the molecular pathogenesis of human leukemia and in particular, the role that aberrant transcription factor function plays in leukemic cell survival and proliferation. Experienced applicants interested in developing biochemical and functional systems to identify key pathways or target genes affected by translocation fusion proteins are encouraged to apply. Please send a description of your research interests, curriculum vitae, and the names and telephone numbers of three references to: Dr. Stephen D. Nimer, Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, Box 575, New York, NY 10021.

POSTDOCTORAL FELLOW POSITIONS PEPTIDE SCIENCE

Several Postdoctoral positions are available immediately in our innovative program in design and synthesis of artificial proteins and peptide dendrimers at Vanderbilt University. Preference will be given to those with a strong background in peptides and proteins, multi-step organic synthesis, or recombinant DNA techniques. Send curriculum vitae and names of three references to: Dr. James P. Tam, Microbiology and Immunology, Vanderbilt School of Medicine, A5119 MCN, 1161 21st Avenue South, Nashville, TN 37232-2363. FAX: 615-343-1467; e-mail: james.tam@mcmail.vanderbilt.edu. *An Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITIONS available for individuals with background in molecular or cellular biology and interest in neuronal death, survival, and repair. Focus is impact of brain injury and stress on monoaminergic neurons in animal models of neurological and psychiatric disorders. Fellows work as part of highly collaborative group within large research center. Opportunities for wide range of laboratory experiences. Minimum salary: \$26,250 plus health benefits. Send curriculum vitae, statement of interest, three letters of recommendation by post or e-mail to: Michael J. Zigmond, Department of Neurology, University of Pittsburgh School of Medicine, S-526 BST, Pittsburgh, PA 15213 USA. E-mail: zigmond+@pitt.edu.

POSITIONS OPEN

POSTDOCTORAL POSITION HUMAN TOPOISOMERASE I UNIVERSITY OF WASHINGTON

Employ a combination of biochemistry and genetics to explore structure-function relationships in human topoisomerase I. Emphasis will be on understanding the structural basis for catalysis, DNA binding, and the mode of action of the anti-cancer drug, camptothecin. Strong consideration will be given to applicants with training in site-directed mutagenesis, standard cloning techniques, and nucleic acid and protein biochemistry. Position available January 1, 2000, but applications will be considered until the position is filled. Please send curriculum vitae, a brief statement of prior research experience, and names of three references to: Dr. James J. Champoux, Department of Microbiology, Box 357242, University of Washington, Seattle, WA 98195.

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

POSTDOCTORAL FELLOW

The Section of Bone Marrow Transplant at Rush-Presbyterian-St. Luke's Medical Center is seeking a Postdoctoral Fellow to participate in research studies in areas directly relating to bone marrow transplantation. Project includes the generation of cytotoxic T lymphocytes against tumor-specific targets, which could be used for leukemia/lymphoma and breast cancer adoptive immunotherapy.

Requirements: M.D./Ph.D. with two to three years of experience in a research laboratory. Experience in molecular biology/immunology.

Interested applicants should forward curriculum vitae to, or telephone: Anastasios Raptis, M.D., Ph.D., Section of Bone Marrow Transplant, Rush Presbyterian St. Luke's Medical Center, Suite 404 Kidston Building, Chicago, IL 60612. Telephone: 312-942-3047.

POSTDOCTORAL POSITION

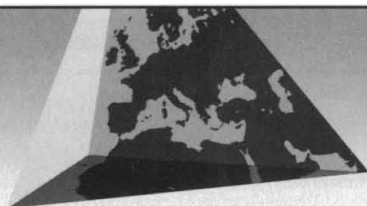
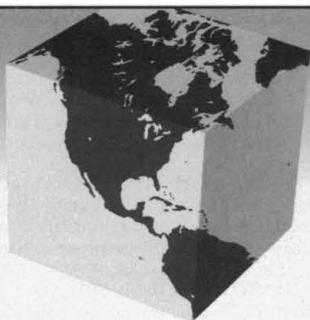
A Postdoctoral position is available immediately to work on various funded projects on topoisomerases and ovarian cancer. Candidates should have a recent Ph.D. degree with a strong background in molecular and cell biology. Experience in gene regulation and signaling pathways is particularly desirable. Applicants are invited to send curriculum vitae, summary of research interests and experience, and three references to: Dr. Alex Ng, Laboratory of Gynecologic Oncology, Brigham and Women's Hospital, Harvard Medical School, 221 Longwood Avenue, BLI-449, Boston, MA 02115. E-mail: sng@rics.bwh.harvard.edu. *Brigham and Women's Hospital and Harvard Medical School are Equal Opportunity Employers.*

POSTDOCTORAL ASSOCIATE SIGNAL TRANSDUCTION

Position is available immediately to study mechanicochemical signal transduction in cultured cells. Emphasis will be on the role of G proteins in transducing flow-induced signals. Must have knowledge of cell biology and molecular techniques related to signal transduction. Candidate will have a Ph.D. in relevant area of molecular biology, biochemistry, or cell biology.

Send curriculum vitae and names of three references to: Dr. John Frangos, Department of Bioengineering, University of California, San Diego, La Jolla, CA 92093-0412.

POSTDOCTORATES/GRADUATE STUDENTS wanted to study the molecular cell biology of newly cloned adapter PSM and Grb10 in cancer and insulin action (see: *Nature* 324:68, 1986; *Science* 236:197, 1987; *EMBO J.* 8:2943, 1989; *J. Virol.* 68:411, 1994; *JBC* 271:8882, 1996; *J. Biochem.* 122:1105, 1997; *JBC* 273:3136, 1998; *AICB* 19:6217, 1999) by: Heimo Riedel, Ph.D., 2171 BIO SCI, Wayne State University, Detroit, MI 48202. Telephone: 313-577-7870; e-mail: hriedel@sun.science.wayne.edu. *Wayne State University is an Equal Opportunity/Affirmative Action Employer.*



– Innovation is looking at things differently –

*Join our
worldwide team
to shape the future.*

*Research and
Development and
modern technology
are the basis
for our worldwide
growth.*

*Communication
is our key.*

*Our business areas:
Human
Pharmaceuticals,
Animal Health,
Chemicals.*

*Our shared
ambition:
Value through
innovation*

Scientist

High Throughput Screening

Boehringer Ingelheim is devoted to discovering, developing, manufacturing and marketing innovative pharmaceutical products. Boehringer Ingelheim's R&D centers in Germany (situated in Biberach between Stuttgart and Lake Constance, and in Ingelheim near Frankfurt/Main) pursue drug discovery in the therapeutic areas of broncho-pulmonary diseases, diseases of the central nervous system, cardiovascular and metabolic diseases, and oncology.

State-of-the-art lead identification plays a vital role in our drug discovery process. As a result of the importance we place in this area, we are currently expanding our expertise and our capacities. We are therefore seeking several highly motivated and experienced scientists to join our high throughput screening group at the Biberach site.

This group performs all high-throughput assays for the German research sites covering enzyme, receptor and functional cellular assays designed to detect novel bioactive compounds of interest in a wide variety of disease targets. A strong focus is on further development and/or introduction of new technologies, e.g. miniaturization and new detection methods, partly in cooperation with external partners from academia and industry. Massive investments have been and are continuing to be made in this area. An essential part of the group's responsibility is interacting closely with colleagues from the therapeutic areas, especially throughout assay development and adaptation of screens to the HTS format.

We are seeking dynamic, innovative scientists (Ph.D or M.D.) with a broad knowledge in the major areas of biological sciences, e.g. biochemistry and molecular biology, several years' experience in assay development and performance, preferably in an industrial HTS program, good knowledge of state-of-the-art laboratory automation techniques and reading systems as well as computational skills.

We are looking for convinced team players with an integrated view of drug discovery technologies and willingness to cooperate within our multi-disciplinary lead discovery department comprising combichem, chemoinformatics, dispensary/screening support and high throughput screening. Accordingly, strong communication skills are essential.

Positions may be at the Postdoc level (two years initial appointment) or as laboratory heads, depending on the level of experience. Boehringer Ingelheim expects a high degree of personal input, team spirit and flexibility. We offer an attractive working environment, flexible working hours, training and development opportunities and excellent rewards for success. Although fluency in German is not a prerequisite for the position, a willingness to learn is, and intensive language courses are offered if needed.

Informal inquiries may be directed to:
Dr. Ulrike Küfner-Mühl, Head of the Department of Lead Discovery, Telephone (+49) 61 32 / 77 - 37 62
Kuefner@ing.boehringer-ingelheim.com

If you feel you would like to work at the cutting edge of drug discovery in the pharmaceutical industry, then please send your application including a list of publications and a short description of previous work to the following address:

Boehringer Ingelheim Pharma KG
Abteilung Personal Geschäftsführungsbereiche /
Personalleitung Forschung & Entwicklung
und Medizin · Gerold Bullinger
D-88397 Biberach an der Riss - Germany
www.boehringer-ingelheim.com



**Boehringer
Ingelheim**

POSITIONS OPEN

The Walther Cancer Research Center at the University of Notre Dame seeks applicants for two **POSTDOCTORAL FELLOWSHIPS** in cell biology. The Cell Biology Group is part of a privately funded, multidisciplinary program the University of Notre Dame stressing preclinical basic research directed toward the study, treatment, and prevention of cancer. Further information about the Center can be obtained at our website: <http://www.nd.edu/~wcc>.

Research opportunities within the Cell Biology Group include Ras-related G-protein regulation of organelle transport and cytoskeletal organization (Dr. Crislyn D'Souza-Schorey); molecular basis of actin-myosin function in cell locomotion, cell division, and cytokinesis (Dr. Douglas Fishkind); apoptosis in *Drosophila* and avian model systems (Dr. David Hyde, Dr. Alan Johnson, and Dr. Joseph O'Tousa); experimental prostate cancer and hormonal carcinogenesis (Dr. Morris Pollard); molecular and immunological mechanisms of the anti-tumor activity of *Mycobacterium bovis* in superficial bladder cancer (Dr. Jeffrey Schorey); the association between apoptosis and the acquisition of the invasive phenotype in hormone-dependent cancers (Dr. Martin Tenniswood); analysis of cytoplasmic dynein-mediated transport in metastasis and tumorigenic cell lines (Dr. Kevin Vaughan); steroid receptors and apoptosis in breast cancer (Dr. JoEllen Welsh).

Candidates should send (1) a letter of application, (2) a curriculum vitae including a publication list, (3) a statement of research interests, and (4) three letters of recommendation to:

Rudolph M. Navari, M.D., Ph.D.
250 Nieuwland Science Hall
College of Science
University of Notre Dame
Notre Dame, IN 46556 USA

Review of applications will begin November 1, 1999.

A Mayo Clinic **POSTDOCTORAL POSITION** with NIH Training Grant support is available for a Postdoctoral Fellow with an interest in the molecular mechanisms of liver cancer development. The project, which will be based in the laboratory of David I. Smith, Ph.D., is a collaborative effort between the Division of Gastroenterology and Hepatology and the Cancer Genetics Program of the Mayo Comprehensive Cancer Center to study the role of chromosomal fragile sites in liver carcinogenesis. Ongoing studies include fragile site cloning, identification of genetic abnormalities in liver cancer, and discovery of gene targets in liver carcinogenesis. *Candidates must be a U.S. citizen or permanent resident and have an M.D. or Ph.D. degree.* Please send curriculum vitae and the names of three references to: Lewis R. Roberts, M.D., Ph.D., Division of Gastroenterology and Hepatology, Mayo Clinic, 200 First Street S.W., Rochester, MN 55905. Telephone: 507-284-4823; e-mail: roberts.lewis@mayo.edu. Mayo Foundation is an Affirmative Action and Equal Opportunity Employer and Educator.

A **POSTDOCTORAL POSITION** is available immediately to investigate the molecular and cellular aspects of the host response in diabetes. Candidates should have a background in molecular biology and diabetes, and currently reside in the United States or Canada. The salary will be commensurate with experience and the appointment is for two years. Send curriculum vitae to: Dr. Dana Graves, W-202, Boston University, 700 Albany Street, Boston, MA 02118. Telephone: 617-638-4733; e-mail: danatgraves@usa.net.

POSTDOCTORAL POSITION to study mechanisms of stroke using transgenic mice and state-of-the-art MRI technology. This is a joint project between several departments (Anesthesiology: Dr. Traystman, Radiology: Dr. van Zijl, and Neuroscience: Dr. Dawson). Applicants with experience in MRI are preferred. Send curriculum vitae to: Dr. Susumu Mori, Assistant Professor, Department of Radiology, Johns Hopkins University, 217 Traylor Building, 720 Rutland Avenue, Baltimore, MD 21287.

POSITIONS OPEN

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A Postdoctoral Research position is available immediately to investigate altered growth factor pathways in experimental and human biliary cancer. Focus will be on targeting critical receptor tyrosine kinases, as well as aberrant autocrine growth factor pathways. Preference will be given to candidates with a Ph.D. degree, and possessing strong training and experience in such procedures as mammalian cell culture, RT-PCR, Northern, Western, and Southern blotting, *in situ* hybridization, FISH, immunohistochemistry, gene transfection and transduction techniques, and anti-sense and ribozyme technology. Salary is highly competitive and dependent upon level of training and experience. Interested persons should send their curriculum vitae and three letters of reference to:

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POSTDOCTORAL POSITION MAMMALIAN NEUROPHYSIOLOGY Mount Sinai School of Medicine

Mount Sinai School of Medicine is a leader in medical research and education. A Postdoctoral position in mammalian neurophysiology is available immediately. The research involves work on cortical organization and dynamics, using optical imaging, electrophysiology, and computer simulations and analysis. We prefer computer literate candidates with prior experience in (quantitative) neurophysiology. Our group includes Ehud Kaplan, Larry Sirovich, Bruce Knight, and others.

For consideration, please send curriculum vitae and names of three references (with a telephone number or e-mail) to: Dr. Ehud Kaplan, Box 1183, Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574. FAX: 212-289-5945; e-mail: kaplane@rockvax.rockefeller.edu. Learn more about our research at website: <http://camelot.mssm.edu/~udi>. We are an Equal Opportunity Employer fostering diversity in the workplace.

Yale University. **POSTDOCTORAL POSITION** available immediately to study the molecular mechanisms of angiogenesis and proinflammatory signaling pathways by analyzing the intracellular targets of anti-angiogenic and anti-inflammatory drugs. Experience in molecular biology, biochemistry, tissue culture, and signal transduction pathways preferred. Website: www.yale.edu/crews. Please send curriculum vitae, a brief statement of past research, and names/addresses of three references to: Dr. Craig M. Crews, P.O. Box 208103, Department of Molecular, Cellular, and Developmental Biology, Yale University, New Haven, CT 06520-8103.

A **POSTDOCTORAL POSITION** in cellular and molecular biomechanics is available to study mechanical properties and functions of extracellular matrix and interaction between cells and extracellular matrix. A background in cellular biology, biochemistry, molecular biology, biophysics, or tissue engineering is required. Send curriculum vitae and the names of three references to: Zong-Ping Luo, Ph.D., Orthopedic Biomechanics Laboratory, Mayo Clinic, Rochester, MN 55905. E-mail: luo.zong@mayo.edu; FAX: 507-284-5392.

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POSTDOCTORAL POSITION available immediately to study the molecular mechanism of mRNA polyadenylation in yeast, its regulation, and its interaction with other processes involved in mRNA synthesis and utilization. Experience in yeast genetics, biochemistry, and/or molecular biology (especially in analysis of nucleic acid/protein and protein/protein interactions) is preferred. If interested, please send curriculum vitae and three reference contacts to: Dr. Claire Moore, Department of Molecular Biology and Microbiology, Tufts University School of Medicine, 136 Harrison Avenue, Boston, MA 02111. FAX: 617-636-6935; e-mail: cmoore@opal.tufts.edu.

NATIONAL EYE INSTITUTE

POSTDOCTORAL POSITIONS on functional genomics approaches to important genes and proteins of the eye are available. *Applicants should be U.S. citizens or permanent residents and have a Ph.D. degree with up to five years of postdoctoral experience in molecular biology techniques.* Candidates should send their curriculum vitae, bibliography, and names and addresses of three references to: Dr. Graeme Wistow, Building 6, Room 331, National Institutes of Health, Bethesda, MD 20892-2740. E-mail: graeme@helix.nih.gov. NIH is an Equal Opportunity Employer.

POSTDOCTORAL FELLOW. Applications are invited for Postdoctoral Fellowships in cancer biology and genetics. Candidates must have a Ph.D. and/or M.D. Studies will examine the genetic regulation of cell growth and differentiation in normal and malignant hematopoietic tissue. Submit curriculum vitae and the names of three references to: Theodora Ross, M.D., Ph.D., University of Michigan Comprehensive Cancer Center, 4217 CCGC, Box 0936, 1500 East Medical Center Drive, Ann Arbor, MI 48109-0936. FAX: 734-647-9654.

POSTDOCTORAL POSITIONS available to study the structure and assembly of bacteriophage $\phi 29$ (see: *Mol. Cell* 2:141; *Cell* 95:431). Experience with phage and RNA is desirable. Send curriculum vitae and three letters of reference to: Dwight Anderson, Microbiology/Oral Science, 18-256 Moos Tower, University of Minnesota, Minneapolis, MN 55455. E-mail: dlander@tc.umn.edu. Equal Opportunity Employer.

POSITIONS OPEN

POSTDOCTORAL RESEARCH ASSOCIATE.
Position available immediately to work on the mechanism of orotidine 5'-monophosphate decarboxylase. The candidate should be experienced in enzyme purification, assay, and kinetics. Some experience in organic chemistry is a plus. The position is funded by NIH and is part of a joint research project between Dr. Weiming Wu at San Francisco State University and Dr. Susan Miller at University of California, San Francisco. Send curriculum vitae and three references to: Professor Weiming Wu, Department of Chemistry and Biochemistry, San Francisco State University, San Francisco, CA 94132. E-mail: wuw@sfsu.edu.

POSTDOCTORAL POSITION is available immediately for a recent Ph.D. in biochemistry/pharmacology/cell biology to study signal transduction through G protein-coupled receptors in normal and disease states. Send curriculum vitae with references to: Madan M. Kwatra, Ph.D., Departments of Anesthesiology and Pharmacology, Duke University Medical Center, Box 3094, Durham, NC 27710. E-mail: kwatr001@mc.duke.edu; FAX: 919-681-8089.

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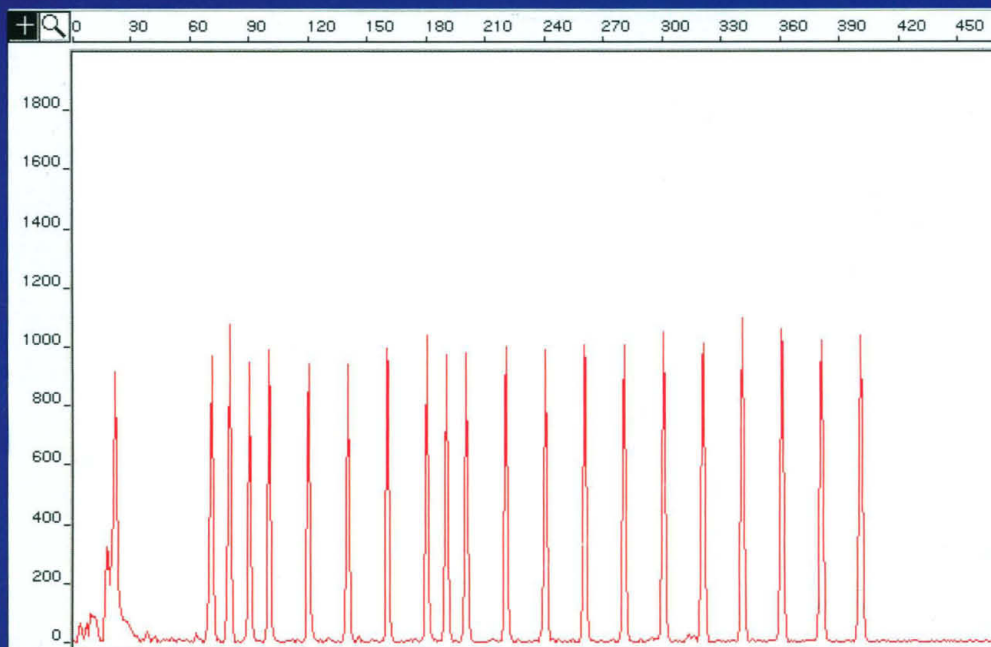
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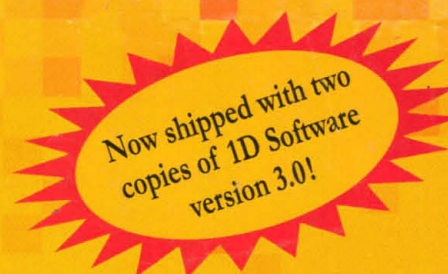
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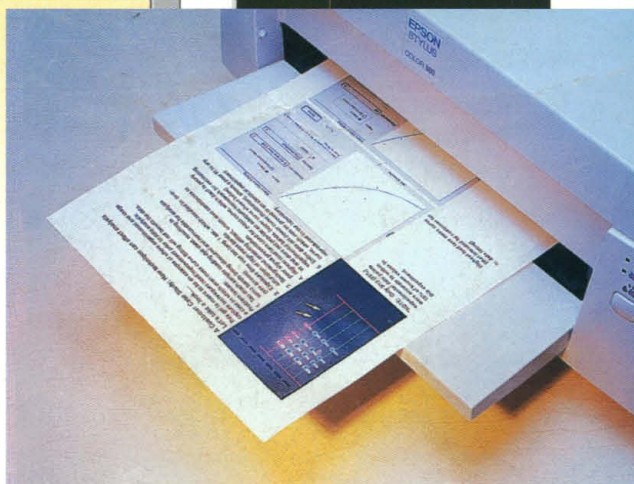
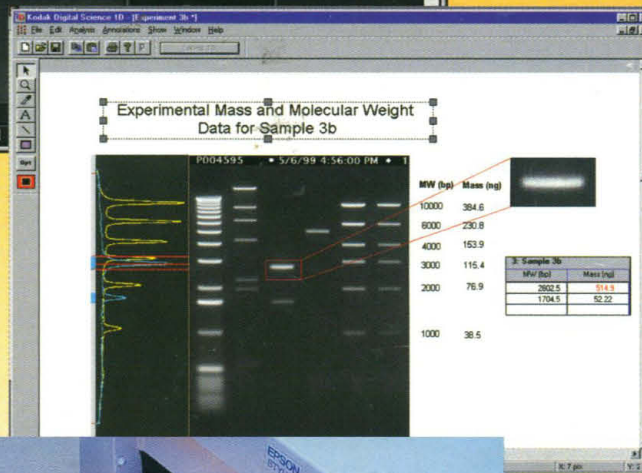
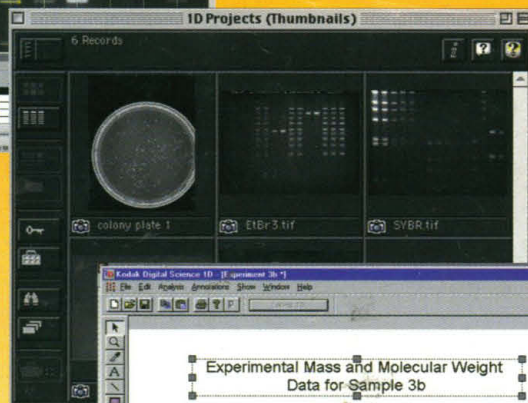
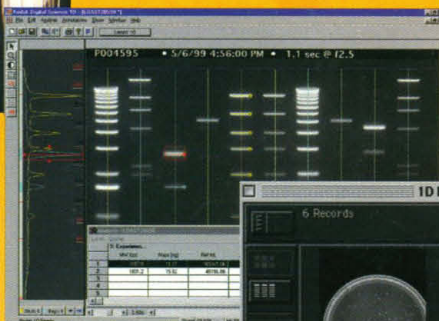
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