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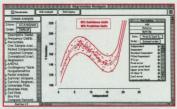
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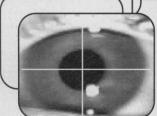


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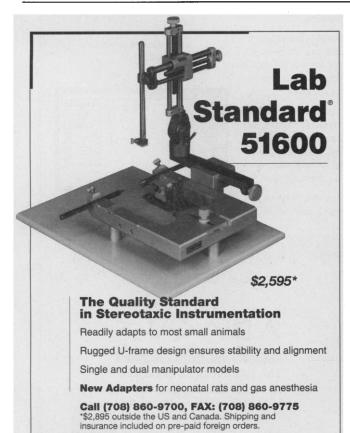
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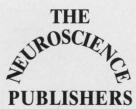
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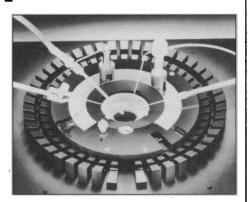
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lular signal transduction, platelet activation, and neurological functions. Chemicon International. Circle 143.

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Literature

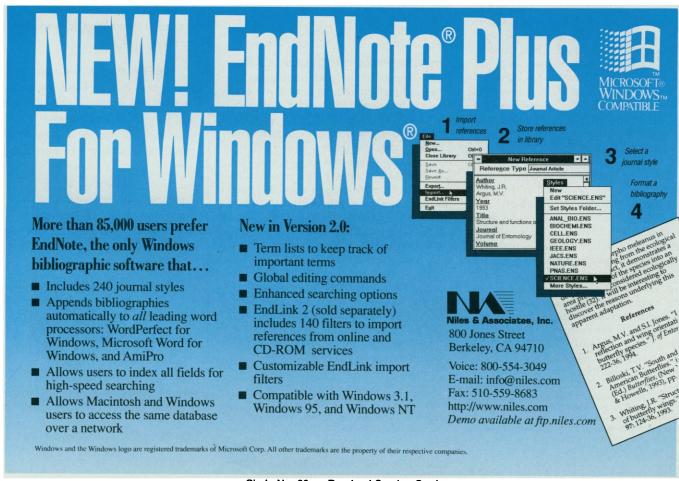
Biomanufacturing Bulletin is a newsletter directed at those involved in industrial process development and manufacturing. Life Technologies. Circle 146.

Mirager Scientific and Medical Imaging is an eight-page guide with details on these systems' image processing, analysis, and management capabilities. Data Cell. Circle 147.

The Nest Group Ideabook is a catalog of electrophoretic and chromatography separation supplies for proteins, peptides, and nucleic acids. The Nest Group. Circle 148.

The Complete Guide to FT-IR: Accessories, Supplies, Microscopes describes a line of products for Fourier transform infrared spectroscopy. Spectra-Tech. Circle 149.

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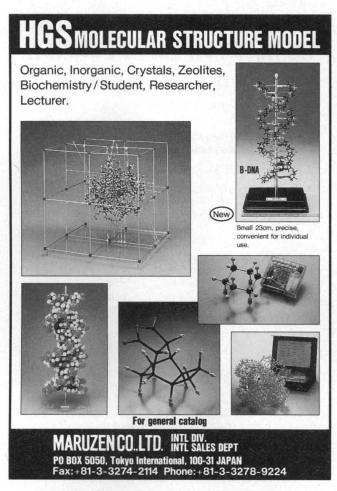
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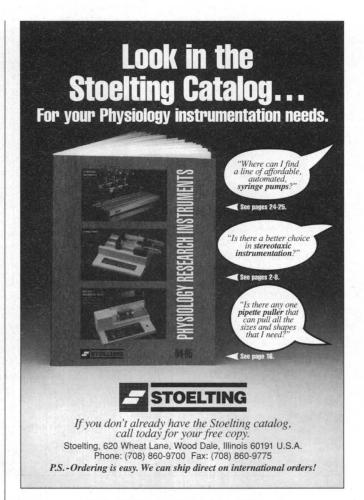
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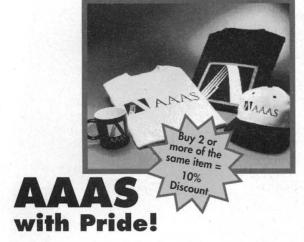
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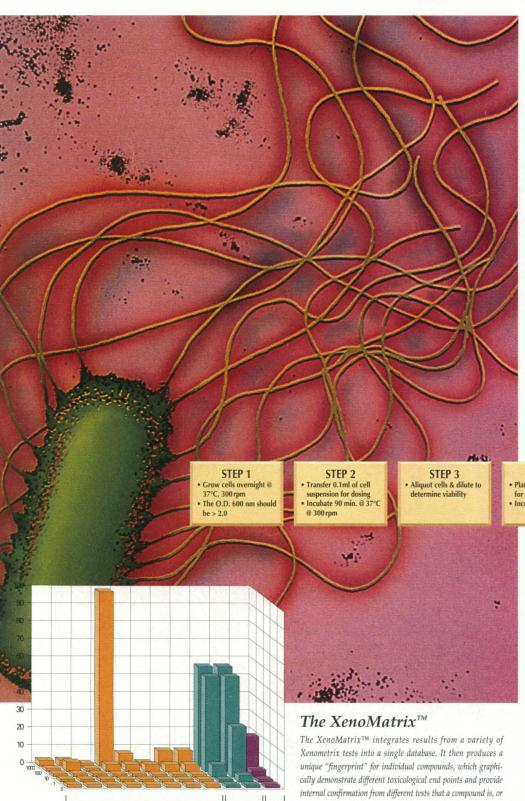


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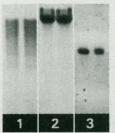
* Developed by P. Gee, D. M. Maron and B.N. Ames, Proc Nat Acad Sci



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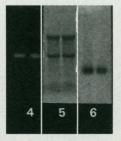
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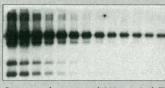
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Prepare double-spaced typewritten copy. Do not include any abbreviations. *Science* will edit and typeset ads according to *Science* guidelines. Include billing information, and desired publication date. Available categories: Positions Open, Meetings, Announcements, Courses and Training, Search Firms. *Science* cannot provide proofs of typeset line ads.

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FAX: 202-682-0816 Internet Email: science_classifieds@aaas.org (please include telephone number in email correspondences)

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WWW: http://www.aaas.org Gopher: gopher.aaas.org Science reserves the right, at its discretion, to edit or decline to publish advertisements submitted to it.

POSITIONS OPEN

ASSISTANT PROFESSOR HUMAN MICROSCOPIC ANATOMY

Applications are being accepted for a TENURE-TRACK faculty position as a Human Microscopic Anatomist in the Department of Anatomy, Northeastern Ohio Universities College of Medicine (NEOUCOM). Proposed starting date for the position is July 1, 1996.

A successful candidate is expected to have a proven record of research and publications with a demonstrated ability or a potential to attract extramural funding. Preference will be given to candidates who use modern cell and molecular biology techniques to address problems in the area of developmental biology. Research interests of current faculty in the Department include nerve-muscle and cell-matrix interactions. Teaching responsibilities involve participation in a team-taught 14-week Microscopic Anatomy course for medical students. Candidates also have the opportunity to develop graduate courses that relate to their specialty. Salary, start-up funds, and facilities for research are competitive.

NEOUCOM, in consortium with Kent State Universi-

NEOUCOM, in consortium with Kent State University, The University of Akron, Youngstown State University, and eight teaching hospitals offer a combined B.S./M.D. degree. Basic medical science faculty participate in graduate programs leading to Ph.D.'s in the areas of neuroscience, cellular and molecular biology, physiology, pharmacology, and biological anthropology through the School of Biomedical Sciences at Kent State University. The Department of Anatomy currently has six full-time faculty.

Applicants are requested to forward their curriculum vitae, a statement of research interests, and the names of at least three references by January 1, 1996 to: Dr. Jon Walro, Ph.D., Chairman, Human Microscopic Anatomy Search Committee, Department of Anatomy, Northeastern Ohio Universities College of Medicine, P. O. Box 95, Rootstown, OH 44272-0095. NEOU-COM is an Equal Opportunity/Affirmative Action Employer.

GENERAL AND MARINE BIOLOGY

The Department of Biology at the University of Central Florida invites applications for a tenure-track faculty position at the ASSISTANT PROFESSOR level starting August 1996. We seek an individual to teach a large introductory biology course for majors. We are interested in individuals with research specialization in marine biology, especially the physiological or behavioral ecology of marine animals. The successful candidate will be expected to establish an active, externally funded research program and will teach at the undergraduate and graduate levels and direct M.S. graduate students in his or her area of specialization. A Ph.D. and postdoctoral experience or equivalent are required. Candidates should submit a curriculum vitae; names, addresses, and telephone numbers of three professional references; and statements of research and teaching interests to: Llewellyn M. Ehrhart, Biology Search Committee Chair, Department of Biology, University of Central Florida, Orlando, FL 32816-2368. Submissions must be postmarked by January 2, 1996. Florida law dictates that all application materials and selection procedures are available for public review. The University of Central Florida is an Equal Opportunity/Affirmative Action

ASSISTANT PROFESSOR DEPARTMENT OF NEUROSURGERY

TENURE-TRACK position available for a Ph.D. or M.D./Ph.D. with experience and expertise in conducting laboratory research in molecular and cellular biology with specific emphasis in one or more of the following areas: signal transduction, tumor suppressor genes, tumor invasiveness, or molecular strategies for solid tumor therapy. Experience with brain tumors is encouraged but not required. Salary and benefits are highly competitive. Send curriculum vitae, summary of research interests, and references to: Raymond Sawaya, M.D., Professor and Chairman, Department of Neurosurgery, Box 64, University of Texas M.D. Anderson Cancer Center, 1515 Holcombe Boulevard, Houston, TX 77030.

Equal Opportunity/Affirmative Action Employer Smoke-free environment.

POSITIONS OPEN

ASSISTANT PROFESSOR NEUROSCIENCE Brown University

The Department of Neuroscience is seeking applicants to fill two TENURE-TRACK faculty positions to expand our Departmental interest in neural plasticity. Areas of specific interest include: the study of learning and memory, using either molecular approaches or neurophysiological recordings in behaving animals (including primates), and genetic or molecular aspects of CNS development.

genetic or molecular aspects of CNS development.

A search to fill two additional positions in these areas will commence upon completion of the current search. A newly renovated building dedicated to neuroscience research, including new cell culture, histology, microscopy and animal care/surgical facilities, and generous research space, will be available for these positions.

space, will be available for these positions.

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

molecular and cell biology.

Applications received by December 31, 1995 will receive full consideration. Submit a curriculum vitae, a set of representative reprints, a concise description of research interests and goals, and arrange for three letters of reference to be sent to: Dr. Mark Bear, Search Committee, Department of Neuroscience, Box 1953, Brown University, Providence, RI 02912. We encourage women and minority candidates. Brown University is an Equal Opportunity/Affirmative Action Employer.

STROKE NEUROSCIENTIST DEPARTMENTS OF CELLULAR BIOLOGY, NEUROLOGY AND NEUROSURGERY

Schumpert Chair in Neurobiology

Full-time tenure-track, joint faculty position available January 1, 1996. Applicants should have a Ph.D. or M.D., postdoctoral experience, and a record of excellent research accomplishments in cell/molecular biology of stroke or related diseases. Candidates should have an established record of extramurally funded research support and be willing to participate in the Neuroscience graduate program. Faculty rank will be commensurate with level of experience. A very attractive package including Schumpert Chair, research facilities and start-up funds is available. Send curriculum vitae and description of current and future research plans to:

Leonard L. Seelig, Ph.D.
Department of Cellular Biology and Anatomy
P.O. Box 33932
Shreveport, LA 71130

Louisiana State University Medical College is an Affirmative Action Employer.

ASSISTANT/ASSOCIATE PROFESSOR

The Department of Animal Science, College of Veterinary Medicine, The University of Tennessee, announces an opening for a tenure-track ASSISTANT/ASSOCI-ATE PROFESSOR whose interests and training complement ongoing research. The College has a nucleus of successful and interactive researchers in the areas of host defense, molecular genetics and carcinogenesis, growth factors, and experimental hematology. The successful candidate must have both D.V.M. and Ph.D. degrees, postdoctoral experience preferred. The successful candidate will be expected to establish a productive, funded research program (70 to 80 percent) and teach in the professional D.V.M. and graduate program (20 to 30 percent). Salary is commensurate with experience and qualifications. Applicants should submit a letter, a curriculum vitae, a statement of career goals, transcripts, and the names and addresses of four individuals who can be contacted to provide references to: Dr. Michael H. Sims, Department of Animal Science, College of Veterinary Medicine, The University of Tennessee, Knoxville, TN 37901-1071. Applications will be reviewed December 1, 1995, and thereafter until the position is filled.

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

Postdoctoral Opportunities In The Biomedical Sciences.

The following research training opportunities are currently available at the National Institutes of Health.

Cell Cycle Regulation Barbara Thomas, PhD

Mechanisms for regulating cell cycle progression during development are being examined in the *Drosophila* compound eye. Current efforts are directed towards the phenotypic analysis and molecular cloning of novel loci that interact genetically with *roughex*, a gene required for G1 arrest. These studies will begin to define genetic pathways for cell cycle regulation in higher eukaryotes. Applicants must have less than five years of postdoctoral experience. Laboratory of Biochemistry (OE-104), NCI, Building 37, Room 4C19, 37 CONVENT DR MSC 4255, BETHESDA MD 20892-4255.

Clinical Neurocardiology David S. Goldstein, MD, PhD

Current project topics include PET scanning of sympathetic innervation and function in patients with neurocardiologic disorders; sympathetic nerve recording and microdialysis; catecholamine pharmacology, metabolism, and kinetics; and homeostatic regulation of stress effector systems. Candidates must have an MD or MD/PhD and be interested in neurocardiology as a new discipline in clinical medicine. Clinical Neuroscience Branch (OE-104), NINDS, Building 10, Room 5N214, 10 CENTER DR MSC 1424, BETHESDA MD 20892-1424.

Immunopathology and Molecular Pathology Chi-Chao Chan, MD

Histopathology of human and experimental immune-mediated ocular diseases is studied using molecular and immunochemical techniques. A strong background in molecular pathology and/or immunology is required. Applicants must have a completed MD and/or PhD degree, be US citizens or permanent residents, and have less than five years of postdoctoral experience. Laboratory of Immunology (OE-104), NEI, Building 10, Room 10N103, 10 CENTER DR MSC 1858, BETHESDA MD 20892-1858.

Mechanisms of Activated Transcription David J. Clark, PhD

A position is available to study the mechanisms of activated transcription using yeast minichromosomes as a model system: a physiologically active gene can be isolated with its transcriptional apparatus intact and in its natural context of chromatin. Experience in protein purification or nucleic acid-protein interactions would be an advantage. Applicants must have less than five years of postdoctoral experience. Laboratory of Cellular and Developmental Biology (OE-104), NIDDK, Building 6, Room B1-12, 6 CENTER DR MSC 2715, BETHESDA MD 20892-2715.

Molecular Genetics Ashok B. Kulkarni, PhD

Genes involved in immune dysregulation, inflammation and phosphorylation processes are being studied. Projects include analysis of mouse mutants generated using gene targeting, generation of animal models for human genetic disorders and development of conditional knockout models.* Applicants should have a strong background in

molecular biology, embryology or immunology and must have less than five years of postdoctoral experience. Gene Targeting Research and Core Facility (OE-104), NIDR, Building 30, Room 529, 9000 Rockville Pike, BETHESDA MD 20892. *(PNAS, 90:770 and Genomics, 28:585).

Neuroanatomy/Neurophysiology Mortimer Mishkin, PhD

A position is available for a neuroscientist trained in anatomy and/or electrophysiology to assist in implementing studies on the structure and function of the macaque's central auditory system. Applicants must have less than five years of postdoctoral experience. Laboratory of Neuropsychology (OE-104), NIMH, Building 49, Room 1B80, 49 CONVENT DR MSC 4415, BETHESDA MD 20892-4415.

Neuron-glial Cell Interactions James T. Russell, PhD

A position is available to study glial neuronal interactions. Problems under investigation include glial cell signals during neuronal activity and cellular communication in glial networks using optical and electrical measurement techniques. Candidates should have extensive experience in electrophysiologic techniques using brain slice preparations. Experience in confocal microscopy desired. Section on Neuronal Secretory Systems (OE-104), NICHD, Building 49, Room 5A32, 49 CONVENT DR MSC 4495, BETHESDA MD 20892-4495.

Additional Opportunities

The NIHEDNET Bulletin Board **POSTDOC** (fellowship positions) and **TENURE** (tenure track positions) conferences are accessed via a modem (301-402-2221 or 800-358-2221 with parameters set at 7, Even, 1) or the Internet using Telnet (wylbur.cu.nih.gov) or the World Wide Web (URL: telnet:llwylbur.cu.nih.gov). When connected to NIH, key in ,vt100 for terminal emulation, F5E for initials, and AJL1 for account number. To view tenure track positions, quit the **POSTDOC** conference and join the **TENURE** conference.

An electronic version of the *Postdoctoral Research Fellowship*Opportunities catalog is accessed via the Internet using either the Gopher Information System (gophen.nih.gov) or the World Wide Web (URL: http://www.nih.gov). When connected with Gopher, select Grants and Research Information and then NIH Office of Education. When connected with WWW, select Grants and Contracts and then NIH Office of Education. If you have further questions, please contact the NIH Office of Education, Building 10, Room 1C129, 10 CENTER DR MSC 1158, BETHESDA MD 20892-1158, Phone 301-496-2427, Fax 301-402-0483.

To Apply

If you hold a graduate doctoral degree (e.g., PhD, MD/PhD) or a professional degree (MD, DO, DDS, DMD or DVM) accompanied by previous laboratory research experience, and would like to be considered for one of these positions, please send a cover letter, curriculum vitae, bibliography, and statement of research interests to the address listed with each position. In addition, please arrange to have letters of recommendation sent from three scientists who can provide an evaluation of your qualifications.

National Institutes Of Health

Office Of Education

The NIH is an Equal Opportunity Employer

POSITIONS OPEN

NÉUROBIOLOGIST BOWMAN GRAY SCHOOL OF MEDICINE WAKE FOREST UNIVERSITY

The Department of Neurobiology and Anatomy invites applications for two tenure-track positions. Successful candidates will have postdoctoral experience, an excellent record of scholarship, and the potential to develop and maintain an active research program. The department is seeking an Integrative Neurobiologist (ASSISTANT/ ASSOCIATE PROFESSOR) who uses modern sys tems, cellular, and/or molecular approaches in areas that complement current faculty research. Preference will be given to those individuals interested in mechanisms by which the nervous system integrates information from different sensory modalities. The department is also seeking a Sensory Neurobiologist (RANK OPEN) working in a CNS system with an emphasis on sensory processing, development, and/or plasticity. Departmental interests include sensory organization, development, and plasticity; retinal cell biology; neuron-glial interactions; programmed cell death; and trophic factors. Bowman Gray offers a unique opportunity to interact with a broad range of neurobiologists that comprise a strong, multidisciplinary neuroscience community. For additional information about the department, see http://isnet.is.wfu.edu/bgsm/nba/nba.html. Send curriculum vitae, research description, and three letters of recommendation to either: Integrative Neurobiologist or Sensory Neurobiologist Search Committee, Department of Neurobiology and Anatomy, Bowman Gray School of Medicine, Wake Forest University, Medical Center Boulevard, Winston-Salem, NC 27157-1010. Affirmative Action/Equal Opportunity Employer.

NEUROBIOLOGIST

Harvey Mudd College (HMC) announces a tenuretrack position (RANK OPEN) to begin August 1996. and postdoctoral experience required. We seek a broadly trained neurobiologist with experience in electrophysiology and expertise in another area of modern neurobiology (e.g., neuronal development, molecular biology, cellular neurophysiology, or computational neurobiology). Breadth of knowledge for excellent undergraduate teaching is required, as is a commitment to an active research program that involves undergraduates. Teaching responsibilities may include the animal physiology portions of introductory biology, general physiology for majors, and advanced specialty courses. Harvey Mudd College, a member of the Claremont Colleges, is a highly selective private college of science and engineering with an outstanding record of preparing students for careers in those fields (http://www.hmc.edu/). Send letter including description of research and teaching interests and curriculum vitae, and have three letters of reference sent to: Dr. Stephen C. Adolph, Department of Biology, Harvey Mudd College, 301 East 12th Street, Clar-emont, CA 91711. Review of applications will begin on December 15, 1995, and continue until the position is filled. Email inquiries to Stephen_Adolph@hmc.edu. HMC is an Equal Opportunity Employer, and is committed to recruiting candidates from groups traditionally underrepresented on college faculties.

Microbiology and Molecular Biology, Middlebury College, Middlebury, Vermont 05753. The Department of Biology invites applications for an anticipated one-year term position, beginning fall 1996, in the area of microbiology and molecular biology. Appointment for this position will be made at the rank of beginning VISITING ASSISTANT PROFESSOR. Applicants should have a Ph.D. in the subject area, a broad background in biology, and a commitment to excellence in both teaching and scholarship. The successful applicant will offer a one-term laboratory course in general microbiology, an advanced one-term laboratory course in molecular genetics, a oneterm general education course that will serve the broader college community, and a winter term course. Supervision of undergraduate student research in microbiology and molecular biology is expected. Completed applica-tion including curriculum vitae, statements of teaching and research interests, undergraduate and graduate transcripts, a sample of scholarly work, and at least three current letters of recommendation sent directly by their authors must be received by 4 December 1995. All materials should be sent to: Dr. Grace Spatafora, M/MB Search Committee, Department of Biology. Telephone: 802-388-3711, x5431; FAX: 802-388-0739. Middlebury College is an Equal Opportunity Employer, and it encourages applications from women and members of minority groups.

POSITIONS OPEN

MOLECULAR DEVELOPMENTAL NEUROBIOLOGIST

The Department of Anatomical Sciences and Neurobiology is seeking to fill a position at the level of ASSISTANT PROFESSOR. The preferred candidate will have an independent research program in developmental neurobiology with a molecular approach, a track record of funding, research that complements existing interests, and will assist in the development of molecular expertise for our NSF-sponsored Program in Developmental and Molecular Neurobiology. A generous start-up package is available. Candidate will be expected to teach a graduate course in Molecular Neurobiology and team teach a course in the Anatomical Sciences; preference will be given to Microanatomy. The Department has 25 faculty, the majority of whom have a research interest in the neurosciences. Deadline: December 31, 1995. Send curriculum vitae, statement of research and career goals, list of current funding, and at least four letters of reference to:

Dr. Laura Schweitzer
Department of Anatomical Sciences
and Neurobiology
University of Louisville School of Medicine
Louisville, KY 40292

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

HAVERFORD COLLEGE

The Molecular, Cellular and Developmental Biology Department has broadened its search for a tenure-track ASSISTANT PROFESSOR for the fall of 1996. The successful applicant will teach introductory and advanced courses in the Biology Department on the molecular biology of proteins and nucleic acids. She or he will receive teaching credit for maintaining an active research program with extensive undergraduate engagement involving the study of an important cell biological problem at the molecular level. Possible areas of interest could include, but are not restricted to, glycoproteins and cell adhesion, metabolism, and RNA processing. She or he will also be expected to participate actively in the teaching of non-science-majors as well as students enrolled in the interdisciplinary Area of Concentration in Biochemistry and Biophysics. Postdoctoral research experience is re quired. Please send curriculum vitae, statements of research plans (one to three pages) and of teaching interests and three letters of recommendation by November 15 1995 to: Dr. Judy Owen, Biology Search, Haverford College, Haverford, PA 19041-1392. Haverford College, located 10 miles west of Philadelphia, is an Equal Opportunity, Affirmative Action Employer; women and minority candidates are especially encouraged to apply. Home page: http://www/haverford.edu/biology/biology.home.

ECOLOGY/EVOLUTION FACULTY POSITION INVERTEBRATE BIOLOGY/ENTOMOLOGY

The University of Montana seeks applicants for a TEN-URE-TRACK POSITION in freshwater or terrestrial invertebrate biology. Research must have a significant field component and complement existing strengths in ecological, evolutionary, and organismal biology in the Division. Productive research, aggressive pursuit of extramural support, and supervision of graduate students is expected. Teaching will include lower-division general biology, an upper-division course in invertebrate biology, perhaps alternating with entomology, and a graduate course in speciality. Ph.D. required, postdoctoral experience preferred, teaching experience desirable. Send letter of application, curriculum vitae, statement of research goals, and three letters of reference to: Invertebrate Biology Search Committee, Division of Biological Sciences, University of Montana, Missoula, MT 59812. Review begins January 8, 1996 and will continue until position is filled. Women and minorities are strongly encouraged to apply. Equal Employment Opportunity/Affirmative Action.

Boston University seeks an ASSOCIATE or FULL PROFESSOR for its graduate Department of Cognitive and Neural Systems. Exceptionally qualified assistant professors will also be considered. Candidates should have aginternational research reputation in modeling nonlinear neural networks in vision, pattern recognition, cognitive information processing, speech, language, or technology. Send curriculum vitae and three recommendation letters to: Search Committee, Cognitive and Neural Systems Department, 677 Beacon Street, Boston University, Boston, MA 02215. Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR IMMUNOLOGY Morehouse School of Medicine

Scientists with research expertise in areas of contemporary molecular or cellular immunology are invited to apply for two regular faculty positions in the Department of Microbiology and Immunology. Candidates for ASSIST-ANT PROFESSOR must have current postdoctoral experience and demonstrated ability to direct an independent research program and obtain extramural research funding. Candidates for ASSOCIATE PROFESSOR must have a record of current research productivity and funding. Morehouse School of Medicine is a young institution dedicated to the training of underrepresented minorities in medicine and graduate biomedical sciences, and to excellence in research. State-of-the-art research facilities plus individual start-up support will be available to the appointees. These positions offer the opportunity for full and rewarding scholarly growth. Underrepresented minorities and women are particularly encouraged to apply. Applicants should submit a curriculum vitae, statement of research background and plans, and names of three references to: Gordon B. Bailey, Ph.D., Chair, Department of Microbiology and Immunology, Morehouse School of Medicine, 720 Westview Drive, Atlanta, GA 30310. FAX: 404-752-1179.

ASSISTANT PROFESSOR Department of Pharmacology and Therapeutics

Applications are being accepted for a TENURE-TRACK FACULTY position at the rank of Assistant Professor. Minimum qualifications include a Ph.D. or M.D. degree in pharmacology or a related discipline and evidence of highly productive postdoctoral research in molecular pharmacology. The successful candidate will be expected to establish a vigorous research program where salaries and operating funds are received from external agencies as well as engage in undergraduate and graduate teaching. The salary range for this position is \$40,000 to \$50,000. Please send letter of application, curriculum vitae, and three letters of reference to: Dr. Gary B. Glavin, Acting Head, Department of Pharmacology and Therapeutics, Faculty of Medicine, University of Manitoba, 770 Bannatyne Avenue, Winnipeg, Manitoba R3E 0W3 Canada. Telephone: 204-789-3355; FAX: 204-783-6915; Email: glavin@cc.umanitoba.ca. Closing date: December 31, 1995. The University of Manitoba encourages applications from qualified women and men, including members of visible minorities, Aboriginal people and persons with disabilities. The University offers a smoke-free work environment, save for specially designated areas. This advertisement is directed to Canadian citizens and permanent residents of Canada.

CHAIR Department of Anatomy

Applications are invited from senior faculty to assume the position of CHAIR of the Department of Anatomy. Midwestern University is comprised of the Chicago College of Osteopathic Medicine, the Chicago College of Pharmacy, and the College of Allied Health Professions. The successful candidate is expected to have an established reputation as a teacher, researcher, and a leader in education.

Applicants are asked to send a résumé and statement of teaching and research interests to: Mark Cummings, Ph.D., Associate Dean for Academic Affairs.

Midwestern University 555 31st Street Downers Grove, IL 60515

An Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION IN NEUROSCIENCE Children's Hospital and Harvard Medical School

The Division of Neuroscience at Children's Hopsital is inviting applications from M.D. or Ph.D. scientists for the position of ASSISTANT PROFESSOR. The possibility exists for a joint appointment in the Department of Neurobiology at Harvard Medical School. Applicants should have an outstanding research background in any area of developmental, cellular or molecular neurobiology. Send a curriculum vitae, current and future research plans, relevant reprints, and three letters of reference to: Michael E. Greenberg, Ph.D., Director—Division of Neuroscience, Children's Hospital, 300 Longwood Avenue, Boston, MA 02115. Harvard Medical School is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are encouraged to apply.

COGNITIVE NEUROSCIENCE

Mc Donnell-Pew Investigator-Initiated Grants

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

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

Preference will be given to projects that include input from two or more of the disciplines contributing to cognitive neuroscience: clinical and basic neuroscience, psychology, computer science, linguistics and philosophy. An emphasis on higher cognitive functions is encouraged.

The grants provide a maximum of \$35,000/year for up to 3 years. An institutional overhead of 10% total salary and fringe benefits may be requested but must be included in the \$35,000/year maximum. The funds may be used to support research, postdoctoral training or to provide seed money for investigators exploring new research directions. Proposals establishing interdisciplinary and/or inter-institutional collaborations are encouraged. Requests for funds to support graduate student thesis research will not be accepted.

Deadline for receipt of proposals: February 26, 1996. The awards will be announced in June, 1996.

To request further information and application guidelines contact: Susan M. Fitzpatrick, Ph.D., Program Officer, McDonnell-Pew Program in Cognitive Neuroscience, James S. McDonnell Foundation, 1034 South Brentwood Boulevard, Suite 1610, St. Louis, Missouri 63117, Phone: 314-721-1532, Fax: 314-721-7421, e-mail: CØ6819CN@WUVMD.WUSTL.edu, on-line: HTTP://www.artsci.wustl.edu/~bruer/jsm_foundation.html

NINTH ANNUAL COMPLEX SYSTEMS SUMMER SCHOOL

JUNE 2-28, 1996 IN SANTA FE, NEW MEXICO

For graduate students and postdoctoral fellows, an intensive introduction to "complex" behavior in mathematical, physical, and living systems. Topics include adaptive computation, evolution of the immune response, neural networks, stochastic processes in complex systems, fluid dynamics, and plant ecosystems. Interactive format encourages group and individual research projects. Computer laboratory. Tuition support. Women and minorities are encouraged to apply.

Co-Directors:

Lynn Nadel, Psychology, University of Arizona Daniel Stein, Physics, University of Arizona

Further information from:

available for travel.

Summer School, Santa Fe Institute 1399 Hyde Park Road, Santa Fe, NM 87501 USA 505-984-8800; fax 505-982-0565

e-mail: summerschool@santafe.edu http://www.santafe.edu

Application procedure: Provide a current resumé (including publications); a statement of your current research interests; comments about why you want to attend the School; and two letters of recommendation from scientists who know your work. Send complete application packages only, preferably hard copy, to the above address. Include your e-mail address and/or fax number. No funds

Application Deadline: FEBRUARY 2, 1996. We will not consider late/incomplete applications.

IPNS STAFF POSITIONS

Argonne National Laboratory, one of the nation's premier scientific research and development organizations, located 20 miles southwest of Chicago, has openings for various positions, as listed, in its Intense Pulsed Neutron Source (IPNS) Division. IPNS is the world's first major pulsed spallation neutron facility dedicated to materials research.

- Staff positions for the Linac and RF systems in the Accelerator Group
- Scientific Assistants for neutron scattering instruments, moderators, ancillary equipment and computers/detectors in the Neutron Operations Group
- Design Engineers in the Accelerator and Neutron Operations Groups
- Technicians in the Accelerator and Neutron Operations Groups

To learn more about these positions, send your resume to Walter D. McFall at the address below.

 Post doc positions for candidates with a PhD awarded within the last 3 years in a discipline such as physics, chemistry, or materials science. Areas of experience are desirable in:

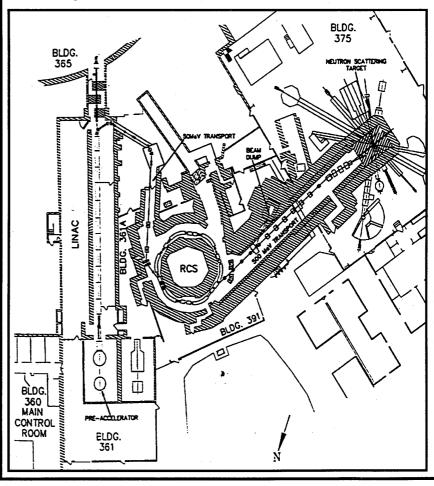


microstructure and atomic dynamics of inorganic solids, preferably using neutron powder diffraction and inelastic scattering with a possible background in calculation of molecular and lattice vibrations with computer simulations and phonon models.

- ✓ neutron or x-ray diffraction and structure refinement by the Rietveld method.
- small angle neutron scattering techniques and expertise in computer software and instrumentation development.
- x-ray or neutron crystallography, either single-crystal or powder, along with small angle and quasielastic neutron scattering.
- ✓ nuclear physics or nuclear engineering for Monte Carlo/analytical calculations for the performance of the target/moderator/ reflector system.
- inelastic neutron scattering applied to problems in condensed matter physics with a preferred background in either magnetism or ferroelectricity

For the Post doc positions, resumes, three letters of recommendation and possible statement of research interests and copies of selected publications should be forwarded to: Walter D. McFall, Box IPNS-55, Employment and Placement, Argonne National Laboratory, 9700 S. Cass Avenue, Argonne, IL 60439. Telecommunications Device for the Deaf (708)252-7722. Applications from candidates who can contribute to our EEO/Affirmative Action goals are welcome. Argonne is an equal opportunity/affirmative action employer.

For additional information please refer to Argonne's Home Page on the Internet — http://www.anl.gov/welcome.html or IPNS at http://www.pns.anl.gov/.



POSITIONS OPEN

ASSISTANT PROFESSOR ENVIRONMENTAL SCIENTIST

Illinois Benedictine College is seeking a tenure-track environmental scientist at the ASSISTANT PROFESSOR level, to begin August 1996. Ph.D. required. Successful candidate will have terrestrial ecology background and experience. Responsibilities are to teach introductory biology courses and upper-level courses in speciality and to develop a research program involving undergraduates. Cover letter should address applicant's interest in undergraduate teaching in a liberal arts environment. Send curriculum vitae, statement of teaching philosophy and research experience, three letters of recommendation, and all transcripts to: Dr. Alfred R. Martin, Search Committee, Department of Biology, Illinois Benedictine College, 5700 College Road, Lisle, IL 60532. Deadline for completed application is December 15, 1995. Illinois Benedictine College is an Equal Opportunity Employer. Women and minority candidates are especially urged to apply.

BEHAVIORAL NEUROSCIENCE

ASSISTANT PROFESSOR. The Department of Psychology at Yale University expects to make an appointment at the rank of Assistant Professor in behavioral neuroscience effective July 1, 1996. The Department emphasizes research interests in the analysis of learning and memory; however, outstanding candidates in all subspecialties including cognitive neuroscience are encouraged to apply. Applicants are expected to provide high-quality teaching at the undergraduate level and in a graduate Behavioral Neuroscience program, and to have exhibited (or shown very clear promise of) excellence in research. Applicants should send a letter of application, a curriculum vitae, papers or reprints, and should arrange for three letters of recommendation to be sent to: Chair, Behavioral Neuroscience Search Committee, Department of Psychology, Yale University, P. O. Box 208205, New Haven, CT 06520-8205. Deadline for completed applications: February 15, 1996. Yale is an Equal Opportunity/Affirmative Action Employer, and applications from women and minority group members are especially encouraged.

HEAD, Department of Forestry and Wildlife Management, University of Massachusetts at Amherst. Includes the administration of teaching, research, and public out-reach activities for a productive multidisciplinary program in natural resources. Candidates must have a demonstrated record of accomplishment in scholarly work, a talent for organization, and an ability to work with faculty representing a wide variety of natural resource and life science disciplines. A doctorate with at least one advanced degree in natural resources, and administrative experience, are required. The position is available July 1, 1996, subject to funding. Applications should be received by January 19, 1996 to receive priority consideration. Send nominations or applications (résumé, letter of intent, and names of three references) to: David B. Kittredge, Chair, Search Committee for the Head, Department of Forestry and Wildlife Management, Holdsworth Natural Resources Center, University of Massachusetts, Amherst, MA 01003. Telephone: 413-545-2943; FAX: 413-545-4358; Email: dbk@forwild.umass.edu. The University of Massachusetts is an Affirmative Action/Equal Opportunity/Americans with Disabilities Act Employer.

VASCULAR PLANT SYSTEMATIST

The Department of Botany at Duke University invites applications for a vascular plant systematist as a tenurerack ASSISTANT PROFESSOR or tenured ASSOCIATE PROFESSOR of Botany to begin September 1996. Expansion of the Duke University Herbarium (algae, fungi, bryophytes, and vascular plants totaling over 700,000 specimens) into a new building is planned and applicants for the position should be prepared to assume a leading role with respect to the collections. Applicants must have an active research program and the ability to teach and direct research at the undergraduate and graduate level. Individuals with research interests that take advantage of the strengths of the collections (eastern North America and Neotropics) are encouraged to apply. A complete application includes a curriculum vitae, description of research goals and teaching interests, and three letters of reference, to be sent to: Professor Donald E. Stone, Department of Botany, Science Drive, Duke University, Durham, NC 27708-0338. Email: dstone@acpub.duke.edu. Applications received by December 21, 1995 are guaranteed consideration. Duke University is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

ASSISTANT PROFESSOR PROFESSOR OF ANATOMY

The Department of Orthopaedic Surgery and Anatomy at the University of California at Los Angeles and affiliates has a position available at the ASSISTANT PROFESSORIAL level or higher for the Division of Anatomy in Orthopaedic Surgery, available January 1, 1996. Applicants must be qualified to teach gross anatomy to medical or dental students and preference will be given to applicants with prior teaching experience. Applicant's research should focus on cell differentiation with an emphasis on regulation of that process by bone marrow cells. Interested candidates may write and enclose curriculum vitae by December 1, 1995 to:

Joseph M. Lane, M.D.
Professor and Chairman
Department of Orthopaedic Surgery
UCLA School of Medicine
Los Angeles, CA 90095-6902

UCLA is an Equal Opportunity/Affirmative Action Employer.

INTEGRATIVE BIOLOGIST

Tenure-track, ASSISTANT PROFESSOR, beginning fall 1996. Preference will be given to broadly trained applicants who use modern approaches to study integrative processes at the organismal or population level. Areas of particular interest are evolution, environmental physiology, or behavior. The successful candidate will be expected to establish a vigorous, extramurally funded research program and participate in teaching at the undergraduate and graduate level. Generous set-up funds are available. Applicants should send a statement of research and three letters of recommendation by 15 January 1996, to: Chair, Integrative Biology Search Committee, Department of Zoology and Genetics, Iowa State University, Ames, IA 50011-3223. Iowa State University, Ames, IA 50011-3223. Iowa State University Assistant Equal Opportunity Employer.

PLANT MOLECULAR GENETICIST

The Department of Molecular Genetics and Cell Biology at the University of Chicago is seeking applications for a faculty position at the ASSISTANT or ASSOCIATE PROFESSOR level in the general field of plant genetics, development, and cell biology. The Department seeks an individual who will establish an active research program and participate in both undergraduate and graduate teaching. Particular consideration will be given to highly interactive candidates whose interests complement existing research efforts in pollen-pistil interactions, biochemical genetics, lipid biosynthesis, chloroplast biogenesis, and vascular tissue development. Applicants should submit a curriculum vitae, reprints, a summary of current and proposed research work, and should arrange to have three letters of recommendation sent by December 15, 1995 to: Dr. Anthony P. Mahowald, Department of Molecular Genetics and Cell Biology, The University of Chicago, 920 East 58th Street, Chicago, IL 60637. Affirmative Action/Equal Opportunity Employer.

The University of Illinois at Chicago, Department of Psychology, invites applications for a tenure-track AS-SISTANT PROFESSOR or a tenured associate professor in Biopsychology beginning in fall 1996. Applicants must have a Ph.D. and an active research program in behavioral or integrative neuroscience employing animal models, with an emphasis on central mechanisms. This ad represents a reopening of a previous search (fall 1995). Submit letter of application, curriculum vitae, and three letters of reference to: Dr. Michael W. Levine, Chair, Biopsychology Search Committee, c/o Cheryl McMillan, Department of Psychology (M/C 285), The University of Illinois at Chicago, 1007 West Harrison Street, Chicago, IL 60607-7137. Applicants should provide evidence of their potential to teach effectively and direct a productive research program. To ensure full consideration, applications should be received by February 15, 1996. Equal Employment Opportunity/Affinnative Action.

ROSS UNIVERSITY SCHOOL OF MEDICINE

Invites nominations to the following departments for its beautiful tropical location in the Caribbean: Gross Anatomy, Histology, Embryology, Microbiology. Excellent tax benefits. Send curriculum vitae to:

Dr. Robert Ross, Search Committee Ross University 460 West 34th Street New York, NY 10001

POSITIONS OPEN

CHEMICAL SENSES University of Colorado Medical School

The Department of Cellular and Structural Biology invites applications for a tenure-track appointment at the ASSISTANT PROFESSOR level (exceptional, more senior candidates will be considered). Qualified candidates will have an M.D. or Ph.D. degree and use cellular or molecular techniques to investigate the neurobiology or development of chemosensory systems. They will be expected to develop an outstanding research program and to participate in teaching. Send curriculum vitae, a one-page statement of research interests, and names and addresses of three references to: Dr. Thomas E. Finger, Department CSB-SC, UCHSC, B-111, 4200 East Ninth Avenue, Denver, CO 80262. Review of applications begins November 17, 1995, and will continue until the position is filled. The University of Colorado Health Sciences Center is committed to Equal Employment Opportunity/Affirmative Action.

Midwestern University (MWU) plans to open a Branch Campus on its 120-acre site in greater Phoenix (Glendale) Arizona in September 1996. The Arizona College of Osteopathic Medicine is MWU's inaugural program on the new campus. Positions at the ASSISTANT, ASSOCIATE, and FULL PROFESSOR levels are available for Anatomy (4), Biochemistry (2) and Physiology (2). Faculty hired will be gin by the Summer of 1996. Initial interviews will be held on the campus of MWU in Downers Grove. Illinois.

MWU currently has three colleges: The College of Osteopathic Medicine, The Chicago College of Pharmacy, and The College of Allied Health Professions. MWU offers a competitive salary and benefits package and the potential for professional growth. Applicants are asked to send a résumé and statement of teaching and research interests to: Leonard Mennen, D.O., Provost, Midwestern University, 555 31st Street, Downers Grove, IL 60515. An Affirmative Action/Equal Opportunity Employer.

Department of Psychology, University of Illinois at Urbana-Champaign (UIUC), ASSISTANT PROFESSOR, Psychopharmacologist. The Department of Psychology of the University of Illinois at Urbana-Champaign invites applications for a full-time tenure-track faculty position beginning fall 1996. Candidates holding the Ph.D. degree and conducting research in any area of psychopharmacology/neuropharmacology that has a relationship to behavior will be considered. Teaching is at both undergraduate and graduate levels. Salary is dependent on qualifications and experience. For full consideration, a curriculum vitae, representative reprints, a statement of research interests, and three letters of recommendation should be sent by 31 January 1996 to: William Greenough, Psychology Department, University of Illinois, Beckman Institute, 405 North Mathews, Urbana, IL 61801. Telephone: 217-333-4472. UIUC is an Affirmative Action/Equal Opportunity Employer.

SENSORY PSYCHOPHYSICIST/ NEUROPHYSIOLOGIST

The John B. Pierce Laboratory, Center for Research in Health and the Environment, an affiliate of Yale University, seeks independent investigator at the junior level (equivalent to ASSISTANT PROFESSOR), preferably in chemosensation or somatosensation. Send curriculum vitae and names of three references by February 1, 1996, to: Sensory Search, John B. Pierce Laboratory, 290 Congress Avenue, New Haven, CT 06519. An Equal Opportunity/Affimative Action Employer.

ASSISTANT PROFESSOR: Two tenure-track positions open: 1) Primary qualification in developmental biology, with some experience in molecular biology/genetics. 2) Primary qualification in organismic physiology, with some experience in microbiology. Candidates for both positions should be able to teach in the general biology sequence and be qualified to offer courses in the core science sequence. Supervise undergraduate research projects. Ph.D. required, postdoctoral teaching experience is desirable. Experience in an urban academic setting is a plus. Applications, including curriculum vitae, the names of three references, and all transcripts, should be submitted to: Dr. Michael E. Held, Chair, Biology, Saint Peter's College, Jersey City, NJ 07306. Application deadline is December 1, 1995. Saint Peter's College is an Equal Opportunity/Affirmative Action Employer and complies with Title IX of the Education Amendments of 1972 and with Section 504 of the Rehabilitation Act of 1973.

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Two scientists are needed for purification and characterization of proteins from recombinant and natural sources on a wide range of projects: from purification of proteins for research, to development of purification processes for Phase 1 clinical trials. You will design, implement and evaluate purification procedures and characterize the products.

To qualify for the Principal/Senior Scientist position, you must have a PhD in Biochemistry or equivalent and at least 5 years of post-doctoral experience in Biochemistry or a related field. Experience in a biotechnology company is preferred. Job Code LC1.

For the Scientist position, a PhD in Biochemistry or a related field is required. Job Code LC2.

If you have the dedication, spirit and flexibility to rise to our many challenges, send your resume, indicating Job Code of interest, to: Chiron Corporation, Human Resources, 4560 Horton Street, Emeryville, CA 94608. We are an equal opportunity employer.



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The chosen candidate will join a team involved in an exciting new breakthrough development program. Working on multiple projects with world class academic, scientific and medical communities on a global scale, you will help develop and coordinate preclinical biologic research on a broad spectrum of cutting edge, multidisciplinary research and technical programs. You will also work in close collaboration with RA, QA, Marketing and R&D groups.

We require an advanced degree in Physiology/ Toxicology. Good interpersonal and technical writing skills are critical. Industrial and project management experience is preferred.

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Baxter

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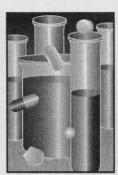
An unrelenting commitment to the discovery of medicines has made **Glaxo Wellcome** America's largest pharmaceutical company. Our mission, and the source of our success, is not merely to **make medicines**, but to **find them**—through some of the most intensive research conducted in the pharmaceutical industry today.

We invite you to be part of our Research & Development atmosphere, where professional excellence teams with scientific leadership to advance the progress of drug discovery. The following opportunities are available at the Glaxo Research Institute located at our Corporate Headquarters in Research Triangle Park, N.C.

DEPARTMENT HEAD - HUMAN GENETICS

Individual will develop and foster genetics initiatives at the International level with both Glaxo Wellcome and our Biotechnology Company partners. Duties will include disease gene identification, diagnostic applications and therapeutic opportunities.

This position requires a Ph.D. or M.D. Degree in Genetics (or a related area) with a minimum of 9 years experience in the field of Human Genetics. Background must include proven leadership and achievements, both internally and externally, in Genetics/Gene Identification. Excellent communication and multidisciplinary skills are required, as is a proven publication record. Please refer to Job # ASC079001 on all resumes.



RESEARCH INVESTIGATOR I/ RESEARCH INVESTIGATOR II/ SR. RESEARCH INVESTIGATOR Enzymology

This position will be filled at the appropriate level based on the applicant's educational background and experience level. The selected individual will design, develop and implement automated high throughput enzyme assays in order to support the drug development efforts aimed at inhibiting enzyme therapeutic targets. Duties will include supervising the screening efforts of these targets and leading the development of structure-activity relationships (SAR) on projects with enzyme targets.

This position requires a BS in Chemistry, Biochemistry or a related area, with 6 years experience in analytical chemistry, robotics and enzymology. Prefer a minimum of 5 years pharmaceutical industry experience in automating enzyme assays, developing SAR, data analysis and handling - OR a Master's or Ph.D. Degree with 1-4 years related experience. Knowledge of enzyme mechanisms and mechanism of Inhibition as it applies to drug discovery and development are required, along with excellent supervisory and communication skills. Must have a proven publication record. Please refer to Job # ASC070701 on all resumes.

The rewards of working at Glaxo Wellcome include excellent salaries and a flexible benefits package, a beautiful headquarters campus, ultra-modern facilities, and an excellent location in the Raleigh-Durham area of North Carolina. For confidential consideration, send your resume, including salary history and indicating the position title and Job #, to: Human Resources, Glaxo Wellcome, P.O. Box 13398, Research Triangle Park, NC 27709. (No Phone Calls or Agency Referrals, Please) An Equal Opportunity Employer M/F/D/V

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POSITIONS OPEN

UNIVERSITY OF MICHIGAN Pharmacologic Therapy for Retinal Dystrophies

We are recruiting a new FACULTY MEMBER to work on neuronal injury repair and rescue for retinal degenerations using pharmacologic approaches. The foremost goal is to identify factors that are neuroprotective for photoreceptors. Preferred background is in molecular or cell biology. Experience in retina and with neurotrophic factors is desirable though not required.

Current group has expertise in anatomy, neurophysiol-

Current group has expertise in anatomy, neurophysiology, and molecular genetics of retinal disease and is working with transgenic animal models and light-damaged rats.

Candidates must have Ph.D. or M.D. and relevant postdoctoral experience. Position is non-tenure-track Research Investigator or Assistant/Associate Research Scientist. Start-up funds are available.

The candidate must merit a secondary appointment in a basic science department of the Graduate or Medical Schools, where teaching and service are expected. Interested individuals should submit a curriculum vi-

Interested individuals should submit a curriculum vitae, description of current and future research plans, and names of three references.

Reply to:
Paul Sieving, M.D., Ph.D.
Retinal and Macular Dystrophy Center
Department of Ophthalmology
1000 Wall Street
Ann Arbor, MI 48105

Equal Opportunity/Affirmative Action Employer; women and minorities are encouraged to apply.

Behavioral/Cognitive Neuroscientist. The Department of Brain and Cognitive Sciences in the University of Rochester seeks an ASSISTANT PROFESSOR for a tenure-track position. We are interested in persons working within the broad domain of brain and behavioral plasticity. Individuals whose research concerns neural mechanisms of learning and memory, or development/ reorganization in perceptual or motor systems, are especially encouraged to apply. The successful candidate will be a key member of a group employing neurobiological, computational, and behavioral approaches to learning and developmental plasticity. Potential applicants can learn more about the Department and its programs from our web site: http://www.bcs.rochester.edu/bcs/Applicants should submit a curriculum vitae, a brief statement of research interests, and the names of three referees to: Search Committee Chair, Department of Brain and Cognitive Sciences, University of Rochester, Rochester, NY 14627. Applications will be accepted until 1 February 1996, or until a suitable candidate is found. An Affirmative Action/Equal Opportunity Employer.

CHAIR, Department of Microbiology/Immunology-Medical College of Pennsylvania and Hahnemann University School of Medicine (MCPHU)-The Medical College of Pennsylvania and Hahnemann University is a large health professions university formed in 1995 from the merger of two antecedent institutions-the Medical College of Pennsylvania and Hahnemann University. The University is, in turn, the educational and research component of Allegheny Health, Education, and Research Foundation (AHERF). AHERF is a nonprofit, statewide integrated academic health system which is proactively meeting the challenges of the changing healthcare environment. The University is located in Philadelphia and consists of five schools: School of Medicine, School of Nursing, School of Health Sciences and Humanities, School of Graduate Studies, and a proposed School of Public Health. The School of Medicine is accepting applications and nominations for the position of PROFESSOR and CHAIR of the Department of Microbiology/Immunology. The existing strengths within the system and the collective resources available make this a most challenging and exciting position. We seek a distinguished scientist with a strong record of significant scientific productivity and an ability to attract external funding. The successful candidate will be an academic leader who will nurture the growth and guide the future of this department into the next century. A letter of interest or nomination and curriculum vitae should be sent to: Richard L. Spielvogel, M.D., Chair, Search Committee, Medical College of Pennsylvania and Hahne-mann University, School of Medicine, 2900 Queen Lane, Philadelphia, PA 19129, c/o Jane Under-wood. MCPHU is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

ASSISTANT PROFESSOR IN BIOLOGY

The Biology Department at the University of Evansville seeks to fill a tenure-track position as an ASSISTANT PROFESSOR to begin August 1996. Applicants should have a strong commitment to teaching and the independent university tradition. Teaching responsibilities include bacteriology, immunology, introductory biology, and microbiology for nursing students. The candidate will also be expected to develop a research program involving undergraduate students, advise biology students, and engage in professional development and University service. A Ph.D. is required and teaching experience is expected. Pay will be commensurate with education and experience.

Applicants should send curriculum vitae, copies of undergraduate and graduate transcripts, a statement describing commitment to undergraduate teaching and research, and three letters of reference to: Karen Ott, Chair, Department of Biology, University of Evansville, Evansville, IN 47722. Applications must be received by December 1, 1995.

The University of Evansville is an independent, churchrelated, selective admissions University located in a city of 135,000 in southwestern Indiana. It offers a comprehensive program of instruction including liberal arts and sciences, engineering, business, nursing, physical therapy, and education. Enrollment numbers approximately 2700 full-time students. The University also includes a major branch campus in England, Harlaxton College.

The University of Evansville operates under a non-discriminatory policy with regard to race, color, religion, national origin, gender, age or disability.

Invertebrate Zoologist. The Biology Department of Albion College announces a tenure-track position as ASSISTANT PROFESSOR to begin in August 1996. A Ph.D. is required, and college teaching experience and a commitment to undergraduate excellence are preferred. The successful candidate will be expected to teach majors' course in Invertebrate Zoology and Ecology, lecture/lab responsibilities in team-taught "Principles of Biology" and "Organismal Diversity." Seminar courses in specialty area encouraged. A research program incorporating undergraduate students is expected. Facilities include modern building with TEM, SEM, controlled environment rooms, greenhouse, and 135-acre nature center. Send letter of application, current curriculum vitae, transcripts, and three letters of reference to: Dr. Ruth E. Schmitter, Chair, Biology Department, Albion College, Albion, MI 49224. Deadline for applications is December 15, 1995. Albion College is an Equal Opportunity Employer and encourages applications from women and minority candidates. Additional information is available at Internet site http://www.albion.edu.

UNIVERSITY OF WASHINGTON Chemical Senses Neuroscientist

Tenure-track ASSISTANT PROFESSOR position in the Department of Otolaryngology-Head and Neck Surgery at the University of Washington. Candidate should be a Ph.D. or M.D. with postdoctoral training. Preferred research interests are cellular, molecular, or developmental problems in the olfactory system. Please send a curriculum vitae, a brief statement of research interests, and the names and addresses of three references to: Marc D. Coltrera, M.D., Oto-HNS, University of Washington, Box 356515, Seattle, WA 98195-6515. The University of Washington is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR

The Department of Biology invites applications for a TENURE-TRACK position for a microbiologist beginning fall 1996. A Ph.D. is required. The candidate is expected to teach undergraduate courses in microbiology, immunology, virology, and cell physiology, as well as to offer graduate courses in the area of specialty. Development of an active research program, pursuit of extramural support, and supervision of M.S. students is also required. Deadline for application is December 15, 1995. Submit résumé, copies of transcripts, and three letters of reference by December 15, 1995 to: Dr. Richard Fehn, Acting Chair, Department of Biology, California State University, 5500 University Parkway, San Bernardino, CA 92407. FAX: 909-880-7005. An Equal Opportunity/Affirmative Action/Section 504. Title IX Employer.

POSITIONS OPEN

Molecular Geneticist. Tenure-track position at ASSIST-ANT PROFESSOR level to begin in September 1996. Duties to include teaching introductory biology, genetics, and a graduate course in area of expertise. Should be willing to employ innovative methods in teaching. Must maintain a research program involving undergraduate and graduate students and be willing to apply for external grants. Start-up funds available. Salary competitive and dependent upon experience. Ph.D. required and postdoctoral experience preferred. Send curriculum vitae, transcripts, three letters of recommendation, and a statement of teaching philosophy and research goals to: The Chair, Hiring Committee, Department of Biological Sciences, Towson State University, Towson, MD 21204. Deadline for application is 31 December 1995. Towson State University is an Equal Opportunity/Affirmative Action Employer and has a strong institutional commitment to diversity. Women, minorities, persons with disabilities, and veterans are encouraged to apply.

ASSISTANT PROFESSOR

The Department of Biology invites applications for a TENURE-TRACK position for a vertebrate physiological ecologist beginning fall 1996. A Ph.D. is required. The candidate is expected to teach undergraduate courses in physiological ecology, comparative animal physiology, first-year organismal biology, as well as to offer graduate courses in the area of specialty. Development of an active research program, pursuit of extramural support, and supervision of M.S. students is also required. Deadline for application is December 15, 1995. Submit résumé, copies of transcripts, and three letters of reference by December 15, 1995 to: Dr. Richard Fehn, Acting Chair, Department of Biology, California State University, 5500 University Parkway, San Bernardino, CA 92407. FAX: 909-880-7005. An Equal Opportunity/Affirmative Action/Section 504, Title IX Employer.

RESEARCH FACULTY POSITION Genetics/Genetic Epidemiology

North Shore Health System, Long Island, New York's largest healthcare network, is seeking applicants at the ASSISTANT or ASSOCIATE PROFESSOR level for its Division of Biology and Human Genetics, a newly formed research division of the Department of Medicine, at North Shore University Hospital in Manhasset. This is a rapidly growing institution with major research strengths in human immunology, now expanding into the area of human genetics. Candidates should have proven ability to carry out independent research. A microsatellite genotyping facility is currently active, and a viral vector production laboratory is under construction for support of clinical gene therapy trials. Applicants whose research focus relates to autoimmune disease or cancer are particularly encouraged to apply. This is an exceptional opportunity to participate in the growth of a new research division with outstanding institutional support for the right candidate. Address correspondence to: Dr. Peter K. Gregersen, Chief, Division of Biology and Human Genetics, North Shore University Hospital, 350 Community Drive, Manhasset, NY 11030. We are an Equal Opportunity Employer. Minorities/Female/Disabled/Veterans.

EXPERIMENTAL PATHOLOGIST

The Department of Pathobiology at the University of Florida College of Veterinary Medicine has a tenure-track position for an experimental pathologist at the rank of ASSOCIATE/ASSISTANT PROFESSOR. Applicants should have D.V.M. and Ph.D. degrees or equivalents and a record of accomplishment in research. Responsibilities will include development of a competitive research program, teaching general pathology to veterinary students, and graduate instruction. ACVP board-certification is desirable, but not required. The Department has excellent research facilities within a dynamic Health Science Center complex and strong, extramurally funded research programs in molecular parasitology, viral and mycoplasmal disease pathogenesis, vaccine development, and wildlife diseases. Applicants should submit a letter outlining professional goals, a curriculum vitae, and a list of three professional referees to: Dr. William L. Castleman, Chairman, Department of Pathobiology, College of Veterinary Medicine, P.O. Box 110880, University of Florida, Gainesville, FL 32611-0880. Department World Wide Web Page: http://www.vetmed.ufl.edu/path/path.htm. Review of applications will begin after January 1, 1996 and will continue until the position is filled. The position will start on or after July 1, 1996.

The University of Florida is an Equal Opportunity/Affirmative Action Institution.

Faculty Positions in Environmental Chemistry-Department of Environmental Sciences

The Department of Environmental Sciences, Cook College, Rutgers - The State University of New Jersey, invites applications for two faculty positions in the area of Environmental Chemistry available July 1, 1996. It is anticipated that one appointment will be as an Associate or Full Professor with immediate evaluation for tenure, and the other as a tenure-track Assistant Professor, although the Department will select the two best candidates meeting program needs.

For the more senior position (DESEC-1) the Department seeks an environmental scientist who works at the interface between biology and chemistry, with emphasis on anthropogenic chemicals in aquatic systems (e.g., bioaccumulation; bioavailability toxicity; transfer through aquatic food chains). The ideal candidate has experience in the fields of environmental chemistry, biology or engineering, aquatic toxicology, or closely related disciplines, and a strong record of teaching and funded research. The successful candidate will be expected to contribute significantly to a developing Department concentration in aquatic ecosystem exposure and assessment, and specifically to a focus in environmental chemistry. She or he will enhance collaboration with Marine and Coastal Sciences, the Environmental and Occupational Health Science Institute, Biology/Ecology, and Environmental Engineering on a university-wide basis in both teaching and research.

For the second position (DESEC-2), a focus in aquatic inorganic chemistry is sought. The ideal candidate obtained a Ph.D. in aquatic or environmental chemistry/engineering or equivalent, and has postdoctoral experience. A specialty in trace metals, nutrient cycling, or biogeochemistry in aquatic ecosystems is preferred, but other sub-specialities will be considered. The successful candidate will teach in the undergraduate and graduate Environmental Sciences programs, and will be expected to develop a nationally-recognized and funded research program.

Please send a letter of application noting which position, *curriculum vitae*, transcripts (Assistant Professor position only), brief statement of research and teaching interest, and the names, addresses (including electronic) and telephone numbers of at least 3 references to: Dr. Peter F. Strom, Search Committee Chair (Environmental Chemistry Positions); Environmental Sciences, ENRSB; Cook College, Rutgers University; New Brunswick, NJ 08903-0231. Review of applications will begin January 4, and will continue until the positions are filled.

Rutgers University is an Equal Employment Opportunity/Affirmative Action employer.

CELLULAR BIOCHEMISTRY

Scientist/Sr. Scientist

SmithKline Beecham, a worldwide leader in pharmaceutical research, has an excellent research opportunity in our Cellular Biochemistry Department for a Scientist to work in osteoporosis research.

The selected candidate will have significant involvement in the development of experimental systems to assess osteogenic differentiation by: establishing tissue-culture cell lines, both primary human osteoblasts cultures and osteosarcoma cell lines; and developing and characterizing new immortalized cell lines. Duties also include developing techniques to examine osteoblasts/adipocyte and chondrocyte differentiation including, enzyme assays, histological staining procedures and gene expression studies.

Qualifications include a BS or BA in biological sciences with 2-5 years' research experience in an academic or commercial laboratory where teamwork and collaboration have been necessary. Molecular biology background is highly desirable, as is culture expertise.

Located in our state-of-the-art research facility in suburban Philadelphia, SmithKline Beecham offers a competitive compensation/benefits/relocation package. For confidential consideration, send your resume and salary requirements to: SmithKline Beecham Pharmaceuticals, Job Code H5-0374, P.O. Box 2646, Bala Cynwyd, PA 19004. We are an Equal Opportunity Employer, M/F/D/V.



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Etiology of Breast and Gynecological Cancers Conference

Ninth International Conference on Carcinogenesis and Risk Assessment

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Nov. 29 - Dec. 2, 1995 Barton Creek Conference Resort Austin, Texas

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John McLachlan, Ph.D. Tulane/Xavier Center for Bioenvironmental Research

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RESEARCH MICROBIOLOGIST NATURAL PRODUCTS SECTION

At Wyeth-Ayerst Research, we're meeting the challenges of a new decade and the next century by building upon our strengths and creating an environment that fosters a more dynamic Research and Development organization. As a leader in the research and development of therapeutic compounds, our drugs have been instrumental in the treatment of infectious diseases, cancer, cardiovascular and central nervous system diseases and for women's health.

A position for a microbial biochemist/physiologist is available. This individual will be a specialist in microbial fermentation and will conduct research to elucidate the biosynthetic pathways of novel metabolites as well as directed fermentation and biotransformation studies to generate new analogs.

Experience in the optimization of medium and environmental conditions to enhance the productivity of secondary metabolites is highly desirable. Various classes of organisms producing interesting compounds will be emphasized. Candidates should have a Ph.D. degree in Microbiology or a related discipline with at least 6-8 years of relevant experience.

This position emphasizes strong interactions with a staff of highly experienced research scientists and presents a valuable opportunity to acquire a broad background in a multi-disciplinary pharmaceutical discovery environment.

Wyeth-Ayerst offers a competitive salary and comprehensive benefits. Qualified applicants should send resume to: Wyeth-Ayerst Research, Human Resources Dept., Position #L-1230, P.O. Box 8299, Philadelphia, PA 19101.



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Or you may fax your resume directly into our centralized Research resume database at (610) 989-4854. Equal Opportunity Employer, M/F/D/V.

POSITIONS OPEN

ALBERT EINSTEIN COLLEGE OF MEDICINE

The Department of Cell Biology seeks two tenure-track ASSISTANT PROFESSORS with a record of excellence in research and an innovative research program, using mammalian or yeast systems, that will complement current research in the Department: gene expression—including chromatin, transcription, and RNA processing; molecular immunology; signal transduction; membrane dynamics and intracellular trafficking; cell-cell interactions; the cell cycle. The Department sponsors NIH Training Grants to support pre and postdoctoral students and provides numerous core facilities. Albert Einstein is located in a pleasant residential district, with easy access to Manhattan or the suburbs of Westchester County and Connecticut. Substantial packages will be provided to start up and sustain the laboratories of successful candidates. Please submit a curriculum vitae, a statement of research interests and plans, as well as the names of three references to: Search Committee (CB), Department of Cell Biology, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1300 Morris Park Avenue, Bronx, NY 10461. Equal Opportunity Employer.

PLANT BIOLOGY POSITIONS

The Department of Environmental and Plant Biology at Ohio University invites applicants with research interests in evolutionary plant biology and freshwater aquatic botany to apply for two tenure-track positions at the ASSISTANT PROFESSOR level. Candidates are expected to have completed the Ph.D. degree and to develop an active research program with the potential for attracting doctoral students and securing external funding. The successful candidates will teach upper-division undergraduate/graduate courses in either evolutionary plant biology and population biology or phycology and aquatic systems, participate in introductory courses for majors or non-majors, and provide research opportunities for doctoral, master's, and undergraduate students.

For the position of Evolutionary Plant Biologist, candidates should be engaged in an experimental program to explore processes of evolution, and be willing to engage in interdisciplinary activities with ecologists, systematists, and paleontologists pursuing phylogenetic studies. For the position of Freshwater Aquatic Botanist, candidates should be engaged in studies of lake, stream and/or river systems, or the algae that inhabit them, and engage in interdisciplinary activities with other water resource programs at Ohio University. Primary research focus may be ecological, systematic, or organismic.

Applicants should send their curriculum vitae, a statement of research interests, and provide three letters of recommendation to be received by December 15, 1995, and sent to: Chair of the Search Committee, Department of Environmental and Plant Biology, Ohio University, Athens, OH 45701-2979. Ohio University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

Biologists: Two TENURE-TRACK POSITIONS available, beginning fall 1996. The primary mission of Grant Valley State University (GVSU) is the education of undergraduates. The Biology Department is looking for individuals to join a dynamic faculty dedicated to that mission and who are looking for the additional opportunity to pursue their research interests while involving students in their work. All faculty in the department are expected to be broadly trained and involved in the instruction of freshmen. The fields of specialization the department is seeking are 1) a cell/molecular biologist who would teach the cellular aspects of cellular and molecular biology in a required majors' course; 2) a plant biologist who would teach a majors' course in algal, fungal, and plant morphology. Both will teach other courses as qualified and appropriate. For both positions a Ph.D. is required and teaching experience is desirable, as is evidence of a desire to involve students in research. Grand Valley State University is a young, rapidly growing regional university of 14,000 students. Applicants should submit a letter of application, curriculum vitae, separate statements of teaching philosophy and research interests, transcripts (photocopies are acceptable), and three letters of recommendation to: Dr. John P. Shontz, Chairperson of Search Committee, Biology Department, Grand Valley State University, Allendale, MI 49401. Review of applications will begin on December 15, 1995, and the deadline for receipt of applications is January 3, 1996. Questions may be directed via Email at shontzj@gvsu.edu, Telephone: 616-895-2470 or FAX: 616-895-3506. GVSU actively complies with all Equal Opportunity and Affirmative Action policies and practices.

POSITIONS OPEN

GENERAL BIOLOGY AND SCIENCE EDUCATION

Salem State College is seeking a TENURE-TRACK faculty member for the fall of 1996 in the area of general biology and science education. Responsibilities include teaching general biology and science education courses; coordination and implementation of secondary education biology programs at undergraduate and graduate levels; working with students returning for teaching certification; working with students in cognate departments who plan to teach at the secondary school level; coordination of department participation in community based education programs. Required qualifications include a Ph.D. in biology or M.A./M.S. in biology with Ed.D. in secondary education or a related field; two years of successful college level teaching; and one year of successful science teaching at the secondary level. Preferred are experience with other science (especially chemistry, physics, or geological sciences); demonstrated ability to maintain good working relations with community groups whose focus is education; and experience in and commitment to working in a multicultural, multiracial environment with students of diverse backgrounds and learning styles. Salary is competitive and commensurate with education and experience.

Application review will begin early January 1996. To apply, send letter of application, résumé and three letters of reference to:

Office of Equal Opportunity and Human Rights Salem State College 352 Lafayette Street Salem, MA 01970

Salem State College is an Equal Opportunity/Affirmative Action Employer. Persons of color, women, and persons with disabilities are strongly urged to apply.

CHAIRMAN OF THE DEPARTMENT OF CELL BIOLOGY AND ANATOMY Finch University of Health Sciences/ The Chicago Medical School (FUHS/CMS)

Applications and nominations are invited for the CHAIR of the Department of Cell Biology and Anatomy. The Chair reports to the Dean of the Medical School and is responsible for providing academic and administrative leadership in research and in the education of medical, graduate, and postgraduate students. The candidate should have a keen interest and ability in teaching, a national/international reputation for scientific contributions in cell biology and anatomy or closely related fields, and the skills necessary to lead an established Department and to enhance the Department's strengths in research, teaching and service.

Applications will be accepted until January 15, 1996, and should include: curriculum vitae, a summary of current research, copies of representative publications, a description of teaching and administrative experience, and the names of three or more references. Send correspondence to: Yoon Berm Kim, M.D., Ph.D., Chair of the Search Committee, FUHS/CMS, 3333 Green Bay Road, North Chicago, IL 60064. Affirmative Action/ Equal Opportunity Employer.

AQUATIC ANIMAL MEDICINE CORNELL UNIVERSITY

The Department of Microbiology and Immunology, College of Veterinary Medicine seeks candidates for a tenure-track position expected to be at the ASSISTANT PROFESSOR level. The successful applicant will develop an independent, competitively funded research program focusing on fish diseases and will teach veterinary and graduate students. We are particularly interested in candidates with established expertise in molecular approaches to disease research. Applicants must have a D.V.M./Ph.D. or a Ph.D. and postdoctoral experience. Applications including a curriculum vitae, outline of research interests, and the names of three referees should be sent to: Dr. Roger J. Avery, Department of Microbiology and Immunology, College of Veterinary Medicine, C5 173 Veterinary Medicine, C5 173 Veterinary Medical Center, Cornell University, Ithaca, NY 14853-6401. Screening of candidates will begin immediately and will continue until the position is filled. Inquiries will be welcomed (Telephone: 607-253-3400; Email: rja5@cornell.edu). Comell University is an Equal Opportunity/Affinnative Action Employer.

POSITIONS OPEN

EVOLUTIONARY GENETICIST University of Arizona Department of Ecology & Evolutionary Biology

The Department of Ecology and Evolutionary Biology seeks an evolutionary geneticist (Ph.D. required) to take a leadership role in interdisciplinary genetics campus-wide. The research area could involve either experimental or theoretical approaches to the genetics of any group of organisms, at any level from molecular to population, so long as the focus is on evolutionary questions. Important criteria include excellence in research and teaching at undergraduate and graduate levels. Although the search is focused at the ASSOCIATE PROFESSOR level, other ranks are not excluded. A 12-month salary is available when duties include a significant administrative component. Application review begins December 15, 1995 and continues until filled. Please send curriculum vitae, statement of research and teaching interests, and three letters of recommendation to: Dr. Richard Michod, Chair, Evolutionary Genetics Search Committee, Department of Ecology & Evolutionary Biology, Biological Sciences West, University of Arizona, Tucson, AZ

The University of Arizona is an Equal Opportunity/Affirmative Action/ADA Employer; applications from women and minorities are encouraged.

Biology: Hartwick College invites applications for two full-time anticipated TENURE-TRACK positions beginning September 1996. Hartwick is a liberal arts college with approximately 1450 students located in upstate New York. Successful candidates must demonstrate excellence in undergraduate teaching, establish a research program involving undergraduate students, and be willing to seek external funding for research. Ph.D. required. We are seeking 1) a neurobiologist to teach anatomy and physiology and upper-level courses such as neurobiology, invertebrate or vertebrate zoology, and electron microscopy, and to advise pre-allied health students; and 2) a plant/aquatic ecologist to teach plant morphology, plant systematics, limnology, aquatic ecology, and courses in the Environmental Science and Policy Program, such as ecology and the environment and environmental science. Please send statement of teaching and research interests, curriculum vitae, and three letters of recommendation to: Dr. Linda A. Swift, Chairperson, Biology Department, Hartwick College, Oneonta, NY 13820. Deadline for receipt of applications is January 26, 1996. *Minor* ity and women candidates are especially urged to apply. An Equal Opportunity Employer.

ANIMAL PHYSIOLOGY ASSISTANT PROFESSOR BARNARD COLLEGE

The Department of Biological Sciences at Barnard College, Columbia University is seeking a full-time **ASSIST-ANT PROFESSOR** (starting September 1, 1996) to participate in undergraduate teaching and conduct on active research programs.

Primary teaching responsibilities will be lecture and laboratory courses in animal physiology. Candidates should be broadly trained in biology and able to teach introductory courses as well as advanced courses in area of specialty (field open). Ph.D. required; postdoctoral and prior teaching experience desirable.

Submit curriculum vitae with a list of publications, statement of research and teaching experience and plans, three representative publications, and three letters of recommendation to: Physiology Search Committee, Department of Biological Sciences, Barnard College, 3009 Broadway, New York, NY 10027. Telephone: 212-854-2437. The department will begin reviewing applications on December 10, 1995. An Equal Opportunity/Affirmative Action Employer. Women and members of minority groups are encouraged to apply.

NEUROSCIENTIST

Two JUNIOR FACULTY or POSTDOCTORAL positions are available to study local signaling between neurons and astrocytes, using in vivo and in vitro preparations. (See: Science, 263:1768–1771, 1994). Background either in electrophysiology or in cell transfection, plasmid preparation, vector construction is desirable. Submit curriculum vitae and reference list to: Maiken Nedergaard, M.D., Ph.D., Department of Cell Biology and Anatomy, New York Medical College, Basic Science Building, Valhalla, NY 10595. FAX: 914-993-4653.

Special Advertising Supplement

1 December 1995

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POSITIONS OPEN

ASSISTANT PROFESSOR INSECT EVOLUTIONARY BIOLOGY

The Department of Biology invites applications for a tenure-track, ASSISTANT PROFESSOR position in insect systematics and evolution. A Ph.D. is required; postdoctoral experience is preferred. The successful applicant will be expected to develop an externally funded research program that uses innovative approaches in the study of insect evolution. Teaching responsibilities will include an upper-division course in insect systematics. Utah State University is a Carnagie I Research institution; the Department of Biology consists of 35 faculty, including several individuals whose primary research interests involve insects. The Department also maintains an insect collection with over two million specimens. There are opportunities for collaboration through the Ecology Center, the Intermountain Herbarium, the Biotechnology Center, the USDA Bee Biology and Systematics Laboratory, and the Utah Agricultural Experiment Station.

Applicants should submit a curriculum vitae, a statement of research and teaching interests, representative reprints, and have at least three letters of recommendation sent to: Dr. Frank J. Messina, Insect Evolutionary Biology Search Committee, Department of Biology, Utah State University, Logan, UT 84322-5305. Email: Messina@cc.usu.edu. Review of applications will begin immediately and will continue until the position is filled. Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR BIOLOGICAL ANTHROPOLOGY

The Department of Anthropology at the University of Michigan invites applications for a TENURE-TRACK position in biological anthropology. Applicants should have a Ph.D. and will be expected to develop a laboratory-based research program with extramural grant support to investigate the population and molecular genetics of humans. Send curriculum vitae, names and addresses of three references, and statements of research and teaching interests to: John Mitani, Department of Anthropology, University, of Michigan, Ann Arbor, MI 48109-1382. The University of Michigan is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

ASSISTANT PROFESSOR POSITIONS

The Morehouse School of Medicine Neuroscience Institute invites applications for full-time positions at the ASSISTANT PROFESSOR level. The successful candidates will be expected to have expertise in one or more of the following areas: electrophysiology, optical imaging, signal transduction, neural development, or neural regeneration. Successful applicants will join a recently funded program that supports electrophysiologists and cellular/molecular biologists working on areas such as circadian rhythm, signal transduction, neurotoxicity, and optical imaging, and will work closely with the Director of the Institute to develop their own independent, externally funded research program. Opportunities for joint appointments in the pre-clinical departments at Morehouse School of Medicine are available. Interested candidates should send their curriculum vitae, the names of three referees, a statement of interest, and representative reprints by November 30, 1995 to: Peter R. MacLeish, Ph.D., Director, Morehouse School of Medicine Neuroscience Institute, Morehouse School of Medicine, 720 Westview Drive, S.W., Atlanta, GA 30310-1495.

The Morehouse School of Medicine is an Equal Opportunity Employer.

BIOLOGY POSITION BOTANY/ECOLOGY

Wesleyan College has a tenure-track, ASSISTANT PROFESSORSHIP in biology for a botanist/ecologist. Ph.D. required. Preference given to broadly trained botanists able to teach some or all of the following courses: botany, general ecology, biological modelling, biostatistics, evolution. Wesleyan currently maintains grant support from the NSF and NIH and has instituted a research-based curriculum in the biological sciences.

Committed to becoming a preeminent liberal arts college for women, Wesleyan emphasizes critical thinking, collaborative léarning, writing across the disciplines, and student-faculty research. Submit letter of application, curriculum vitae, transcripts, and three letters of recommendation to: Dr. Ronald Toll, Chair, Biology Department, Wesleyan College, Macon, GA 31297-4299 by December 8, 1995. Affirmative Action/Equal Opportunity Employer. Women and minority candidates are encouraged to apply.

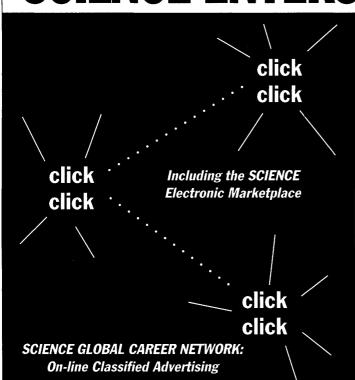
POSITIONS OPEN

PLANT MOLECULAR BIOLOGIST Tenure-Track Assistant Professor

The Department of Plant Biology, Southern Illinois University at Carbondale, has available a tenure-track AS-SISTANT PROFESSOR position in plant molecular biology beginning August 16, 1996. Minimum qualifications are a doctoral degree in plant biology/botany; experience in a relevant postdoctoral research position; previous coursework in molecular plant biology; teaching experience in plant biology/biology courses; research experience in gene molecular plant biology; and eligibility for participation in a plant biology doctoral program. Qualified candidates should send letter of interest, curriculum vitae, three letters of reference, and copies of relevant publications and grants before 15 January 1996 to: Dr. Walter E. Schmid, Department of Plant Biology, Mailcode 6509, Southern Illinois University at Carbondale, IL 62901-6509. Southern Illinois University at Carbondale is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR of Plant Biochemistry with 70% research and 30% teaching responsibilities, located in the Department of Vegetable Crops, University of California, Davis. Appointee will develop a strong research program investigating fundamental aspects of plant biochemistry. The research should have ultimate application in the understanding and manipulation of plant products, preferably food quality. Examples of potential research areas are plant secondary metabolism, novel plant products, plant hormones, or the accumulation of carbohydrates, vitamins, fiber, flavor, or aroma compounds. To ensure consideration, applications must be received by February 1, 1996. A curriculum vitae, statement of research and teaching interests with documentation, official transcripts if within five years of receiving degree, and names and addresses of at least three professional references should be sent to: Richard W. Michelmore, Search Committee Chair, Department of Vegetable Crops, University of California, Davis, CA 95616-8746. Telephone: 916-752-1729; FAX: 916-752-9659 or Email: rwmichelmore@ucdavis.edu. The University of California is an Affirmative Action/Equal Opportunity Employer.

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American Association for the Advancement of Science



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FAX: (202) 289-4021 **E-mail:** kbullock@aaas.org

American Association for the Advancement of Science

POSITIONS OPEN

ANIMAL VIROLOGIST

The Department of Microbiology and Immunology, College of Veterinary Medicine seeks candidates for a tenure-track position as ASSISTANT PROFESSOR of Virology. The successful applicant will be expected to develop an independent, competitively funded research program and to teach veterinary and graduate students. We are particularly interested in candidates who use molecular approaches in infectious disease research and complement existing programs. Applicants must have a Ph.D.; those who also have a D.V.M. degree are encouraged to apply. Experience at the postdoctoral level is required. Applications including a curriculum vitae, outline of research interests, and the names of three references should be sent to: Dr. Roger J. Avery, Department of Microbiology and Immunology, College of Veterinary Medicine, C5 173 Veterinary Medical Center, Cornell University, Ithaca, NY 14853-6401. Screening of candidates will begin immediately and will continue until position is filled. Inquiries will be welcomed (Telephone 607-253-3400; Email: rja5@cornell.edu). Cornell University is an Equal Opportunity/Affirmative Action Employer.

Training in Neural Processes in Cognition. POST-DOCTORAL AND PREDOCTORAL training investigating higher brain function at multiple levels of analysis. This is a joint program of the Center for the Neural Basis of Cognition between the University of Pittsburgh, its School of Medicine, and Carnegie Mellon University This is an interdisciplinary program investigating the neurobiology of cognition utilizing neuroanatomical, neurophysiological, behavioral, and computer simulation procedures. Facilities include: computerized microscopy, human and animal electrophysiological instrumentation, behavioral assessment laboratories, brain imaging, the Pittsburgh Supercomputing Center, and access to human clinical populations. Application deadline is February 1, 1996. For information contact: W. Schneider, University of Pittsburgh, 3939 O'Hara Street, Pittsburgh, PA 15260. Telephone: 412-624-7061; Email: NEUROCOG@PITTVMS.BITNET or WWW http:/ /neurocog.irdc.pitt.edu/npc/ and http://www.cs.cmu.edu/Web/Groups/CNBC/CNBC.html.

POSTDOCTORAL FELLOWS

POSTDOCTORAL POSITIONS available immediately to study the molecular mechanisms of lung development. Experience in molecular biology required. University of British Columbia welcomes all qualified applicants, especially women, aboriginal people, visible minorities, and persons with disabilities. In accordance with Canadian Immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada.

Please forward curriculum vitae, reprints, and three references to:

Dr. V. C. Venkatesh Department of Pediatrics #212-950 West 28th Avenue Vancouver, BC V5Z 4H4 Canada Telephone: 604-875-2442 FAX: 604-875-3106 Email: vvenk@unixg.ubc.ca

POSTDOCTORAL/RESEARCH ASSOCIATE

Position available immediately to study regulation and manipulation of fatty acid metabolism in transgenic plants. Experience in biochemistry and/or chemistry and molecular biology advantageous. Send curriculum vitae and references to: David Hildebrand, N-106 AGN, University of Kentucky, Lexington, KY 40546. Email: dhild@ukcc.uky.edu.

RESEARCH ASSOCIATE MOLECULAR BIOLOGY Full-time Position University of Virginia

Manage molecular biology laboratory providing services to faculty scientists. Oversee personnel, train faculty, perform advanced services, and develop techniques. B.S. with experience or M.S. Salary range: \$22,426 to \$34,240. Send résumé to: Center for Research in Reproduction, Medical Center Box 391, University of Virginia, Charlottesville, VA 22908. Email: reprod@virginia.edu.

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIPS COMPLEX SYSTEMS Studies at the Santa Fe Institute

The Santa Fe Institute (SFI) expects to have an opening for one or more postdoctoral fellows beginning in September 1996. The Institute's multidisciplinary research program is devoted to the study of complex systems, especially complex adaptive systems. For more information about SFI's Postdoctoral Fellowship see http://www.santafe.edu/sfi/visitor/postdoc-ad.html.

All application materials must be received by February 15, 1996. Decisions will be made by April 1996. Applicants should submit a curriculum vitae, list of publications, statement of research interests, and three letters of recommendation. Incomplete applications wil not be considered. Send complete application packages only, preferably hard copy, to: Postdoctoral Committee, Santa Fe Institute, 1399 Hyde Park Road, Santa Fe, NM 87501 U.S.A. Include your Email address and/or FAX number. SFI is an Equal Opportunity Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL POSITION Genome Sequencing Technology

Designing and developing automated capillary fluorescent DNA sequencing systems based on novel fluidic technology. Candidates with backgrounds in analytical chemistry, engineering, molecular biology, micromachining, or instrumentation will be considered. Submit curriculum vitae, a short statement of research accomplishments, and at least two letters of recommendation to: Dr. Harold Swerdlow, Department of Human Genetics, 2100 EIHG, University of Utah, Salt Lake City, UT 84112. FAX: 801-581-5163. More information: http://www.genetics.utah.edu/swerdlow.

University of Utah is an Equal Employment Opportunity/

University of Utah is an Equal Employment Opportunity/ Affirmative Action Employer and encourages applicants from men, women, and minorities.

POSTDOCTORAL POSITION available to participate in two NIH-funded multidisciplinary research projects: gene regulation and the physiological role of brain neurokinin receptors and the regulation of neurotransmitter transporter gene expression and function. Send curriculum vitae and three letters of reference to Dr. Michael J. Bannon, Department of Psychiatry and Behavioral Neurosciences, Wayne State University School of Medicine, 540 East Canfield, 2309 Scott Hall, Detroit, MI 48201. Wayne State University is an Equal Opportunity/Affirmative Action Employer.

Michigan (Wayne State/Ann Arbor area)—POST-DOCTORAL opening in receptor protein kinase signaling to dissect insulin, IGF-1, EGF (see Nature, 324:68, 1986; Science, 236:197, 1987; PNAS, 85:1477, 1988; EMBO J. 8:2943, 1989; J. Virol., 68:411, 1994) or PKC action (see JBC, 268:3456, 1993; MCB, 13:4728, 1993; Biochem. 115:1000, 1994; Mol. Cacinogen, 12:42 and 166, 1995) by biochemistry and the yeast two-hybrid system. Contact: Heimo Riedel, Ph.D., Co-Section Head, Harvard Medical School/Joslin Diabetes Center, 1 Joslin Place, Boston, MA 02215-5397. Telephone: 617-732-2691/3; FAX: 617-732-2589.

POSTDOCTORAL OXYGEN TOXICITY

Training or experience in biochemistry, microbial physiology, analytical chemistry, and/or free radicals and desire to do enzyme isolation and kinetics in vivo and in vitro for brain kynurenine pathway with applications for hyperbaric oxygen induced convulsions and degenerative brain disorders in a five-year team effort to begin after January 1, 1996. Send résumé to: Olen R. Brown, DCRC, University of Missouri, Columbia, MO 65211. Email: VETORB@UMCVMB.MISSOURI.EDU.

Equal Opportunity/Affirmative Action Employer

POSTDOCTORAL POSITIONS

Available immediately to study peptide/protein engineering for novel applications. Requires Ph.D. in chemistry or biochemistry with experience in peptides and proteins. Please send letter, current curriculum vitae, and three letters of reference to: Dr. James Tam, Department of Microbiology and Immunology, A5119 MCN, Vanderbilt University, Nashville, TN 37232-2363. Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

POSTDOCTORAL and PREDOCTORAL POSI-TIONS in Neural Plasticity and the Neurobiology of Learning and Memory. The Department of Neurobiology and Anatomy at the University of Texas-Houston Medical School is seeking candidates for training posi-tions in Neural Plasticity and the Neurobiology of Learning and Memory. The fields of investigations supported by a training grant from the NINDS include defining the neural structures responsible for simple behaviors and learning and memory, in vertebrates and invertebrates, mechanisms of motor cortex reorganization following acquisition of new motor skills and following cortical injury, plasticity in the primate visual cortex and in the fish retina, physiological, biochemical, molecular and computer modeling of memory storage mechanisms in vertebrates and several species of invertebrates, protein phosphorylation mechanisms in the modulation of synaptic efficacy, protein phosphorylation mechanisms in plasticity of neurotransmitter biosynthesis, molecular biology of longterm potentiation, and the role of gene induction and new protein synthesis in long-term memory mechanisms and neurotrauma.

Applicants should send a curriculum vitae, the names of three references, and a statement of their research interests to: J. C. Waymire, Ph.D., Program Director, Training Program in Neural Plasticity, Department of Neurobiology and Anatomy, University of Texas-Houston Medical School, Houston, TX 77030. Minorities and women are encouraged to apply.

POSTDOCTORAL POSITION in molecular virology/biochemistry available immediately to work on translation control mechanisms in picornavirus-infected cells. One goal of the project will be molecular cloning of a cellular protease that controls translation rates. Experience in protein purification and cloning techniques will be an asset. Must have a Ph.D. and relevant molecular or biochemical experience. Send curriculum vitae and names of three references to: Dr. Richard E. Lloyd, Department of Microbiology and Immunology, University of Oklahoma Health Sciences Center, P.O. Box 26901, Oklahoma City, OK 73190. FAX: 405-271-3117. An Equal Opportunity Employer.

MOLECULAR NEUROBIOLOGY

POSTDOCTORAL POSITION available to study role of SRF-related MEF2 transcription factors in brain development. Experience in molecular biology or neuro-anatomy required. Please send curriculum vitae and three letters of recommendation to: Dr. Dana Leifer, LCI 7, Department of Neurology, Yale University School of Medicine, P.O. Box 208018, New Haven, CT 06520. Equal Opportunity/Affirmative Action Employer.

TEACHING POSITIONS Physiology, Anatomy, Microbiology, Pathology, Psychology, and Biochemistry

Available at American University of the Caribbean School of Medicine. These positions are located at St. Maarten in the Caribbean. Applicants must have a Ph.D. or M.D. degree and be devoted to teaching medical students. American curriculum taught in English. Send résumé to: MEIO-S, 901 Ponce de Leon Boulevard, Number 201, Coral Gables, FL 33134. Telephone: 305-446-0600.

Fellowships for POSTDOCTORAL TRAINING in neural development, plasticity, and regeneration at the Ohio State University. Systems, cellular, and molecular approaches are available for trainees supported by an NINDS training grant. Faculty include M. Beattie, G. Bishop, J. Boulant, R. Boyd, J. Bresnahan, J. Bruno, R. Burry, H. Cooke, M. Hadjiconstantinou-Neff, L. Horrocks, J. King, J. Lucas, G. Martin, J. Masters, N. Neff, R. Nordlander, J. Oberdick, R. Rogers, A. Rotter, B. Stokes, R. Tassava, J. Wood, and A. Yates. Fellows supported by the training grant must be U.S. citizens or permanent residents.

Applications, including curriculum vitae, statement of research interests, and three letters of recommendation, should be sent to: Drs. M. S. Beattie and G. F. Martin, at the Department of Cell Biology, Neurobiology and Anatomy, The Ohio State University, 333 West 10th Avenue, Columbus, OH 43210. Potential applicants are encouraged to contact the program directors and prospective faculty sponsors for detailed information. Telephone: Dr. Beattie 614-292-1781; Dr. Martin 614-292-1667. The Ohio State University is an Affirmative Action/Equal Opportunity Employer and encourages women and minorities to apply.

HEMATOPOIETIC SIGNAL TRANSDUCTION

SmithKline Beecham Pharmaceuticals, a worldwide leader in pharmaceutical research, has a challenging opportunity within the Department of Molecular Virology and Host Defense whose activities encompass basic and applied research in molecular virology, immunity to infectious diseases, and hematoregulatory cytokine biology and signaling mechanisms.

The successful candidate will direct research efforts aimed at understanding and exploiting hematopoietic cell signaling for drug discovery. The candidate will have responsibility for establishing new research initiatives, and for contributing to ongoing efforts in the area of hematopoietic cell signaling. A Ph.D. or equivalent, and 5-10 years' postdoctoral experience investigating the biochemical and molecular basis for growth factor dependent signal transduction is required. The candidate will work in collaboration with multidisciplinary research teams investigating specific molecular targets with the overall goal of discovering modulators of growth, differentiation and/or apoptosis in hematopoietic cells. The candidate should have excellent written and oral communication skills, a strong publication record, and experience directing Ph.D. scientists. Previous research experience in a pharmaceutical or biotechnology setting is desired, but is not required.

Located in our state-of-the-art research facility in suburban Philadelphia, SmithKline Beecham offers a competitive compensation and benefits package, including relocation, and a stimulating work environment in which to grow and excel. For confidential consideration, please send resume with salary history to: SmithKline Beecham Pharmaceuticals, Job Code H-HSTSD, PO. Box 2645, Bala Cynwyd, PA 19004. We are an Equal Opportunity Employer, M/F/D/V.



Challenging the natural limits.

THE WHITEHEAD INSTITUTE FOR BIOMEDICAL RESEARCH AND THE DEPARTMENT OF BIOLOGY

MASSACHUSETTS INSTITUTE OF TECHNOLOGY TENURE TRACK FACULTY POSITIONS IN DEVELOPMENTAL GENETICS, MAMMALIAN DEVELOPMENT, AND STRUCTURAL BIOLOGY



The Whitehead Institute for Biomedical Research is looking for candidates for tenure track positions at the level of Assistant Professor in the fields of Developmental Genetics, Mammalian Development, and Structural Biology. Successful candidates will be expected to conduct an active research program and to participate in the Department's teaching program.

Applicants for the Developmental Genetics position should have significant research accomplishments using genetic approaches to elucidate developmental processes in a multicellular organism. We are also interested in candidates pursuing problems in mammalian development, including mechanisms of embryonic induction, cell fate, and cell migration. Applicants for the Structural Biology position should be accomplished in the use of X-ray crystallographic approaches to study problems in structural biology.

Please designate the search to which you are applying, send a curriculum vitae, a summary of your proposed research program, and the names of at least three scientists who can provide an evaluation of accomplishments and future potential to: Search Committees, Room W1667, Whitehead Institute for Biomedical Research, Nine Cambridge Center, Cambridge, MA 02142. An Equal Opportunity/Affirmative Action Employer.

SIBIA is expanding its interdisciplinary research and development on therapeutics for diseases of the central nervous system. We have established an impressive record in the development of innovative technologies integral to the field of neuroscience and the biopharmaceutical industry. We are now seeking experienced Scientists to support our drug discovery efforts for the neuropharmaceuticals of the future.

HIGH-THROUGHPUT SCREENING

This position requires a Ph.D. in Pharmacology or Medicinal Chemistry with at least 3 years of experience in drug screening and management of high-throughput screening data. Experience with relational databases and robotic systems is preferred. The focus is the identification of novel lead molecules based on high-throughput functional screening of compounds against recombinant brain receptors and/or ion channels. An ability to interact with various departments in order to develop new assays and pursue leads identified in the screening program together with drug screening experience in an industrial setting, is essential.

NEUROPHARMACOLOGY

We are seeking a Ph.D. to develop models for stroke and epilepsy and assess compounds in these animal models. The ideal candidate will have a Ph.D. and 2+ years working with various stroke models, including the MCAO model in the rat. A general behavioral background is advantageous.

MEDICINAL CHEMISTRY

A Ph.D. degree in Medicinal, Bioorganic, or Synthetic Chemistry is essential with 3-5 years postdoctoral experience in a medicinal chemistry environment, preferably in an industrial setting. The ideal candidate will have a successful track record in medicinal chemistry with a good understanding of modern approaches to drug discovery. In addition to strong synthetic organic chemistry skills, extensive experience with molecular modeling in drug design will be extremely useful.

ASSISTANT/ASSOCIATE SCIENTISTS

We are also seeking BS/MS-level candidates for the following 3 research roles:

One position requires experience in behavioral pharmacology with emphasis on cognition, conditioning, operant behavior and stereotaxic brain surgery. A strong background in neuroanatomy, immunocytochemistry, and statistical analysis is desirable.

Another position requires 3-5 years of experience in neurotransmitter release, *in vivo* microdialysis, stereotaxic brain surgery, histology, and cell culture.

The third position requires a degree in Synthetic Organic Chemistry plus 0-5 years experience. The ability to work on small to medium scale multi-step synthesis, a good knowledge of compound separation and purification, as well as structure characterization, are required.

Located on San Diego's beautiful La Jolla coastline, SIBIA offers not only a challenging environment in an aesthetically pleasing setting, but also a competitive salary and benefits package. Send your *C.V.* with the names of 3 references to: Lynn Alba, SIBIA, 505 Coast BIvd., South, Suite 300, La Jolla, CA 92037, fax (619) 452-9279. EOE.



POSITIONS OPEN

MOLECULAR TOXICOLOGY UNIVERSITY OF WISCONSIN-MADISON

POSTDOCTORAL POSITIONS in molecular, cellular and biochemical toxicology funded by an NIEHS training grant.

Topic areas include: regulation of gene expression (toxicant metabolizing enzymes, oncogenes, DNA repair enzymes); cellular effects mediated by the Ah-receptor; toxicant activation; toxicity in developing organisms; mechanisms of carcinogenesis; action of toxicants on liver, kidney, gonadal, nerve, and immune cells.

Time will be allocated for training in Toxicology, and Molecular and Cellular Biology as appropriate. Collaborative projects involving more than one laboratory are encouraged.

Applicants must be U.S. citizens or permanent residents and should send a curriculum vitae, three references (addresses and telephone numbers), and a letter stating research interests to: Dr. Colin R. Jefcoate, Director, Environmental Toxicology Center, B157 Steenbock Library, 550 Babcock Drive, Madison, WI 53706. Telephone: 608-263-4580. An Equal Opportunity Employer.

RNA CELL BIOLOGY POSTDOCTORAL POSITION

Candidates with experience in microinjection of mammalian cells are sought for a project on intracellular traffic and localization of RNA. Send curriculum vitae and two letters of recommendation to: Dr. Thoru Pederson, c/o Human Resources Office, Worcester Foundation for Biomedical Research, Shrewsbury, MA 01545. Affirmative Action/Equal Opportunity Employer.

SOMATOSENSORY PHYSIOLOGIST

A POSTDOCTORAL position is available to study somatosensory function after spinal cord injury. Studies will include an evaluation of changes in functional properties of spinal and supraspinal neurons after injury. The research is part of a multidisciplinary effort to develop new strategies to study the functional changes that occur in spinal neurons after spinal injury. Prior experience with extracellular and, evoked potential recording techniques in the rat spinal cord is desired. Send curriculum vitae and three letters of reference to: Dr. Robert Yezierski, The Miami Project to Cure Paralysis, 1600 N.W. 10th Avenue, R-48, Miami, FL 33136. Equal Opportunity Employer/Affirmative Action. Drug and Smoke Free Workplace.

POSTDOCTORAL RESEARCH ASSOCIATE positions available to study (1) modulation of ion channels and hormone secretion. Simultaneous Ca²⁺ current, membrane capacitance, and microfluorimetric [Ca²⁺], recordings are used to investigate neuropepitde and second messenger control of secretion by single pituitary cells; or (2) regulation of ion channel expression and assembly in cardiac, pituitary, and neural cells. Experience with patch clamping (1) or molecular biology (2) is required. Send curriculum vitae and three names for references to: Edwin Levitan, Ph.D., E1355 Biomedical Science Tower, Department of Pharmacology, University of Pittsburgh, Pittsburgh, PA 15261. The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION in cellular/molecular neurobiology available for individual interested in using state of the art electrophysiological and molecular biological techniques to study the roles of excitatory amino acids and second messenger/protein kinase systems in modulation of synaptic transmission and neuronal function in mammalian brain. A strong background in cellular and/or molecular neurobiology is preferred. Send curriculum vitae, three references, and statement of research interests to: Dr. P. Jeffrey Conn, Department of Pharmacology, Emory University School of Medicine, Atlanta, GA 30322. Emory University is an Equal Opportunity/ Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately to carry out the sequencing, analysis, and expression of genes relevant to solvent production and strain degeneration in saccharolytic clostridia. Degeneration is associated with the initiation of sporulation and solventogenesis. Experience in molecular biology is required, and experience in cultivation of anaerobic bacteria would be highly desirable. Please submit a curriculum vitae and the names of three references to: Dr. Eva Kashket, Boston University School of Medicine, 80 East Concord Street, Room L504, Boston, MA 02118-2394. FAX: 617-638-4286; Email: ekashket@acs.bu.edu.

POSITIONS OPEN

POSTDOCTORAL RESEARCH POSITIONS

Available immediately for Ph.D., M.D. in a strong interdisciplinary group of scientists within the East Carolina University School of Medicine Center for Alcohol and Drug Abuse Studies. Research experience desired in areas of psychopharmacology and neurochemistry with background helpful in CNS techniques including microinjection, cerebral dialysis, push-pull perfusion, and chromatographic separation of serotonin and catecholamine neurotransmitters. State of the art procedures including peptide synthesis, radioligand receptor analysis, and antisense technology are available. Send curriculum vitae and three letters of recommendation to: Professor R. D. Myers, Department of Pharmacology, School of Medicine, East Carolina University, Greenville, NC 27858. Federal law requires proper documentation of identity and employability at the time of employment. Affirmative Action/Equal Opportunity Employer.

TWO POSTDOCTORAL POSITIONS Strong Background in Cellular and Molecular Biology Required

1) To study animal models of neurological disease with a focus on the development of therapeutic strategies for treating these models. 2) To study transgenic and genetargeting strategies to generate animal models of neuro-degenerative disease. Send letter and curriculum vitae to:

Donald L. Price, M.D.
The Johns Hopkins University School of Medicine
Neuropathology Laboratory
720 Rutland Avenue, 558 Ross Research Building
Baltimore, MD 21205-2196
Email: ADRC@WELCHLINK.WELCH.JHU.EDU
(No phone calls, please)

Equal Opportunity Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL FELLOW. Applications are invited for an immediate postdoctoral fellowship in programmed cell death. Candidates must have a Ph.D. or M.D. with laboratory experience in molecular biology and protein analysis. Experience in transgenic mouse technology would be helpful. Studies will examine the genetic regulation of apoptosis in normal and malignant tissue. Submit curriculum vitae and the names of three references to: Mike Clarke, M.D., University of Michigan Medical School, MSRB II, Room C570A, 1150 West Medical Center Drive, Ann Arbor, MI 48109-0668. FAX: 313-763-4226. An Affirmative Action/Equal Opportunity Employer.

SIGNAL TRANSDUCTION

POSTDOCTORAL POSITION. Available immediately to study cross-talk between G proteins, G protein-coupled receptors, and kinase cascades. Studies use a multidisciplinary approach including interaction cloning, protein purification, and measurement of intracellular ion fluxes. Background in either transmembrane signaling or the regulation of ion exchangers is preferred. Send curriculum vitae, description of research interests, and three letters of reference to: Diane L. Barber, Ph.D., HSW604, University of California, San Francisco, CA 94143.

POSTDOCTORAL ASSISTANT/ASSOCIATE is sought for designing and constructing gene knockouts for analysis in mouse models. At least two years of experience in PCR, Southern blotting, sequencing, screening libraries, and making constructs is highly desirable, but candidates with excellent training in biochemistry and a strong desire to train in molecular methods will also be considered. Contact: Dr. Fred Schroeder, Department of Physiology and Pharmacology, Texas A&M University, TVMC, College Station, TX 77843-4466. Affirmative Action/Equal Opportunity Employer.

INSTITUTE OF MOLECULAR BIOLOGY ACADEMIA SINICA, TAIWAN, ROC

POSTDOCTORAL POSITIONS available to work on gene regulation of steroid synthesis, or growth and differentiation of sex gland development. Previous experience in molecular biology, cell biology, or endocrinology will be helpful. Please send curriculum vitae and list of references to: Dr. Bon-chu Chung, Institute of Molecular Biology, Academia Sinica, Nankang, Taipei, Taiwan. FAX: 886-2-782-6085; Email: mbchung@gate. sinica.edu.tw.

POSITIONS OPEN

POSTDOCTORAL POSITIONS CELLULAR NEUROPHYSIOLOGY

The Neurosciences Unit at the Loeb Research Institute, Ottawa Civic Hospital and University of Ottawa, has one to three year openings for post-doctorate positions in cellular electrophysiology, to study intrinsic and synaptic properties, transmitter-receptor interactions and signal transduction in CNS neurons regulating pituitary secretion and spinal sympathetic outflow. Requires M.D. or Ph.D. degree, and experience with in-vitro preparations, current, and patch clamp recording techniques. You will be joining a Neurosciences Program comprised of eight PIs with expertise in molecular and cellular neurobiology applied to exocytosis, membrane trafficking, signal transduction, ion channel function, post-ischemic neuronal function and survival. Salary range \$28,650 to \$34,500 (Can). Send or FAX: 613-761-5360 curriculum vitae, a short statement of interests, and names of three references to: Dr. Leo Renaud, Director, Neurology/Neurosciences, Ottawa Civic Hospital, 1053 Carling Avenue, Ottawa, Ontario K1Y 4E9 Canada.

POSTDOCTORAL POSITION. Available immediately to participate in an NIH-supported program investigating the regulation of gene expression during the transcript elongation and truncation phases of mRNA synthesis (JBC 268: 12874; JBC 270: 2290). Candidates should have earned a Ph.D. in the biological sciences and have significant expertise in molecular biology techniques. Some experience with protein purification and a basic understanding of transcriptional regulation is preferred. Send curriculum vitae, including brief description of research interests and experience, and the names and telephone numbers of three references to: Dr. Michael G. Izban, Sealy Center for Molecular Science and Department of Reproductive Sciences, University of Texas Medical Branch, Galveston, TX 77555-1062. Email: Mizban@BEACH.UTMB.EDU. FAX: 409-747-0475. University of Texas Medical Branch is an Equal Opportunity/Affirmative Action University. Minorities/Female/Disabled/Veteran.

RETINAL NEUROBIOLOGY

A POSTDOCTORAL POSITION is available to study synaptic plasticity in the vertebrate retina. The project employs electrophysiological (intracellular and patch clamp recording), pharmacological, and anatomical techniques to investigate a circadian rhythm in neuronal light responses in fish and rabbit retinas. Experience in electrophysiology is desirable. Please send curriculum viate, a description of research experience, and the names and addresses of three references to: Dr. Stuart Mangel, Neurobiology Research Center; University of Alabama School of Medicine, CIRC 425, 1719 Sixth Avenue South, Birmingham, AL 35294-0021 U.S.A. Email: mangel@nrc.uab.edu. The University of Alabama at Birmingham is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION in molecular neuroscience-Johns Hopkins University (JHU)-to study neurodegeneration and novel messengers. Investigations will involve cloning novel genes, development of gene transfer technology (viral and stem cell), and expression of genes in neural systems. Three years of funding limited to U.S. citizens or permanent residents. Please send curriculum vitae to: Drs. Valina and Ted Dawson, Department of Neurology, JHU, 600 North Wolfe Street, Path 210, Baltimore, MD 21287. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION Molecular Genetics of Lung Injury and Repair

An immediate opening is available to study the molecular genetics of lung airway injury and repair. Specific areas of study include the investigation of mechanisms involved in protection, repopulation, and cytodifferentiation of pulmonary epithelial cells in response to injurious agents. A strong background in cellular and molecular biology is desirable. Send curriculum vitae, names of three references, and letter indicating skills and interests to: Dr. B. R. Stripp, Department of Environmental Medicine, University of Rochester, 575 Elmwood Avenue, Rochester, NY 14642. The University of Rochester is an Equal Opportunity Employer.

Baltimore, Maryland-based biopharmaceutical company with a mission to discover, develop and commercialize novel products for the diagnosis, treatment and prevention of neurological diseases. Guilford is a world leader in neuroscience research and is developing important products for brain cancer, Parkinson's Disease, and ischemia. Guilford is currently expanding its research activities in nerve regrowth, neurodegeneration, and cocaine addiction, and seeks scientists in the following areas:

NEUROBIOLOGY

Guilford is seeking scientists with specific expertise in animal models of neurodegenerative diseases to establish an *in vivo* research laboratory aimed at developing novel therapeutics for neurodegenerative disorders. Ph.D. or M.D./Ph.D. degree in Neuroscience or related field and relevant post-doctoral experience are required. We are also seeking individuals with a B.S./M.S. degree in Biological Sciences and at least 2 years' relevant experience in biochemistry, immunohistochemistry, receptor pharmacology, cell culture, small animal surgery, *in vivo* microdialysis and/or behavioral pharmacology.

BEHAVIORAL PHARMACOLOGY

Guilford is seeking a scientist with a strong background in behavioral pharmacology, preferably with experience in animal models of drug addiction, to establish an *in vivo* research program aimed at developing novel therapeutics for cocaine addiction. Ph.D. or M.D./Ph.D. degree in Behavioral Pharmacology or related field, and relevant post-doctoral experience are required. Familiarity with microdialysis techniques is desirable.

MEDICINAL CHEMISTRY

Guilford is seeking a candidate for a Ph.D. level position who possesses a doctorate in Synthetic Organic Chemistry, preferably natural products total synthesis, as well as relevant post-doctoral experience in the design, synthesis and characterization of biologically-active structures. We are also seeking B.S. or M.S. candidates with a degree in Chemistry and at least 2 years' relevant experience. A thorough proficiency in all modern methods of synthetic organic chemistry and structural characterization (IR, NMR, etc.) is essential.

PHARMACOKINETICS

Guilford is seeking a Ph.D. with a strong background in pharmacokinetics to establish a laboratory for the study of absorption, distribution, metabolism and excretion of novel small molecule CNS active compounds, and novel polymer-based drug delivery systems. This position requires 3-5 years' relevant industrial experience. Knowledge of pharmacodynamics is desirable. We are also seeking a B.S. or M.S. candidate with at least 2 years' relevant industrial experience in pharmacokinetics.

Candidates for all positions should possess a strong desire to work in an intensively multidisciplinary team environment, in which insights from neurobiology and structural biology are applied to novel approaches for treating neurodegenerative disorders. A strong record of demonstrated research accomplishments and well-developed communication skills are essential.

We offer highly competitive salaries, benefits and incentive plan, as well as relocation assistance. You are invited to submit your resume and salary history, indicating your area of interest, to:

Guilford Pharmaceuticals Inc., (area of interest), 6611 Tributary Street, Baltimore, MD 21224. EOE.



Endocrinology

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

ASSOCIATE DIRECTOR

This individual will help lead a program in generating new therapeutic molecular targets in the areas of obesity and diabetes. Requirements include expertise in the above mentioned areas, a history of published research, and the achievement of academic tenure or a record of progressively responsible management experience in the pharmaceutical industry. The preferred candidate will have experience directing research in receptor pharmacology and molecular biology. (Job Code OXP-SC-NEUR)

RESEARCH SCIENTIST

This individual will participate in programs to develop new therapeutic approaches to obesity and diabetes. Requirements include strong in vivo expertise with 4+ years' postdoctoral academic or industrial experience focused on in vivo hormonal effects on carbohydrate, lipid or protein metabolism. The preferred candidate will have a history of published research using obesity or diabetès disease models. (Job Code: OXP-SC-2964)

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

At Amgen, you'll find our approach to scientific research as rewarding as it is effective. We offer a highly competitive compensation and benefits package that includes a retirement and savings plan, an on-site fitness center, and three weeks' vacation. Please mail or fax your resume/c.v. to: Amgen, Staffing, Job Code: (see above), Amgen Center, Thousand Oaks, CA 91320-1789. Fax: (805) 499-9981. Please consult our on-line Job Bulletin Board at http://www.bio.com for information on other career opportunities available at Amgen. Principals only, please.



EEO/AA Employer M/F/D/V

2nd International Conference on Functional Mapping of the Human Brain

Sheraton Boston Hotel & Towers, Boston, MA June 17—21

Call For Abstracts: Received by January 31, 1996

Session Topics

- ·Sensory System
- •Motor System
- Language
- •Cognition
- •Brain Disorders
- ·Learning & Memory
- •Methods & Models
- Aging & Development

For Information contact:

Organization of Human Brain Mapping 220 Longwood Ave. Goldenson B-231 Boston, MA 02115 USA

FAX: (617) 432-0057

email: hbm96@nnr.mgh.harvard.edu

www: http://www.nmr.mgh.harvard.edu/HBM96/Boston.html

FACULTY POSITIONS IN SYSTEMS NEUROSCIENCE WASHINGTON UNIVERSITY Department of Anatomy and Neurobiology

Tenure track faculty positions in the area of systems neuroscience are available in the Department of Anatomy & Neurobiology at Washington University School of Medicine. We seek individuals whose research focusses on non-human primates and who are taking innovative approaches to important questions in systems neuroscience, including sensory processing, motor control, or cognitive function. We are particularly interested in applicants whose proposed research program includes a strong computational aspect. Excellent laboratory space will be available in a newly completed state-of-the-art primate facility. Our emphasis is on appointments at the Assistant Professor level, but appointments at a more senior level will also be considered.

The Department of Anatomy & Neurobiology includes 20 faculty who are actively involved in neurobiological research, and it is part of a much larger interdepartmental neuroscience program. The new primate facility is in close proximity to a new Imaging Center containing superb PET and MRI research facilities. Both the department and the neuroscience program offer numerous opportunities for scientific interactions and collaborations.

Applicants should send a curriculum vitae, synopsis of research interests, and names (incl. addresses, phone/fax/email) of three references to: Dr. David Van Essen, Head, Department of Anatomy and Neurobiology, Box 8108, Washington University School of Medicine, 660 S. Euclid Ave., St. Louis, MO 63110, USA. Applications should be received by December 20, 1995.

Washington University is an Affirmative Action/Equal Opportunity Employer. Applications from minorities and women are encouraged.

Director

Physical Science Laboratory of New Mexico State University

Physical Science Laboratory (PSL) of New Mexico State University (NMSU) is an R&D organization contracting to government and industry through its strong engineering, service, and science programs, several of which are world-class. Located at the base of the Rio Grande Research Corridor, PSL is strongly positioned with excellent capabilities and a substantial contract base in atmospheric sciences, electronic defense, engineering services, scientific, balloon research, and telemetry.

We invite applications and nominations for the position of Director for a laboratory of about 400 people and \$31 million annual contract funding. We seek an energetic, innovative leader who desires new challenges and can demonstrate the following qualifications:

- •PhD in engineering or a physical science with the ability to obtain top secret security clearance.
- •Ten years of directly relevant experience, including five years experience of "hands-on" manager of RD&E engineering projects.
- •Broad general knowledge of science and technology relevant to Laboratory operations.
- •Demonstrated success for developing programs and attaining contracts to sustain Laboratory growth.
- •Excellent leadership abilities and communication skills.

The ideal candidate will have demonstrated technical and management leadership and initiative in successful performance under relevant government or industrial contract requirements.

Applicants should submit a cover letter, resume, and the names, addresses, and telephone numbers of five references. The search committee will begin consideration of applications after November 1, 1995, and will continue until a successful candidate is selected.

Offer of employment is contingent upon verification of the candidate's eligibility for employment in the United States.

Applications and nomination should be submitted to:

James L. McDonough Chair, PSL Director Search Committee Dept. 3AA, Box 30001 New Mexico State University Las Cruces, New Mexico 88003-8001

NMSU is an EEO/AA employer

PESTICIDE REGISTRATION MANAGER

Do you have:

- a Bachelor's Degree in Marine Biology/Industrial Toxicology (or related science)?
- a minimum of ten (10) years experience in pesticide registrations for marine antifoulants or pesticides with Federal and State E.P.A. agencies?
- ability to prepare detailed technical reports?

If you can say YES to all these questions and desire a position with a worldwide leader in the commercial marine and pleasure craft coatings industry, please send resume to Jack Hickey, Technical Director, Interlux Division of Courtaulds Coatings, Inc.; 2270 Morris Avenue; Union, NJ 07083 (Fax: 908-964-2250)

An Equal Opportunity Employer M/F/D/V

POSTDOCTORAL POSITION

CELL CYCLE REGULATION OF CELL MEMBRANE SYNTHESIS

Investigation of modification of the rate controlling enzyme in the pathway of phospholipid formation by regulatory kinases using contemporary techniques of molecular and cell biology. Study of phospholipase activation/signalling by growth factors and its role in cell cycle regulation of membrane synthesis and trafficking (J. Biol. Chem. 269:3858, 1994). Position available immediately and recent PhD required. Send curriculum vitae with names of three references to: Dr. Suzane Jackowski, Department of Biochemistry, St. Jude Children's Research Hospital, 332 North Lauderdale, Memphis, TN 38105. An Affirmative Action/Equal Opportunity Employer.



POSTDOCTORAL FELLOW CHEMICAL DISPOSITION, ANALYTICAL CHEMISTRY, PHARMACOKINETICS

CIIT is an independent, not-for-profit research organization. Our mission is to improve the scientific basis for understanding and assessing the potential adverse effects of chemicals, pharmaceuticals, and consumer products on human health.

We are currently seeking Postdoctoral Fellows to undertake research in chemical disposition and metabolism in adult and/or prenatal animals. Specific research areas include endocrine modulation (transplacental transfer of chemicals and their effects on sexual differentiation and on endocrine homeostasis in developing organisms) and toxicology of oxygenated fuel additives. The goal of the research is to assess doses of toxicants to target sites and to evaluate the potential for human health risks.

The successful candidates will possess a doctoral-level degree in Chemistry, Biochemistry, or Pharmacology, or in a related discipline with expertise in analytical chemistry, biochemistry, pharmacology, or toxicology. Experience in endocrinology, developmental toxicology, or pharmacokinetics is preferred but not required.

We are also seeking a postdoctoral fellow to study pharmcokinetics, metabolism and distribution of an oxygenated fuel additive.

The successful candidate will be involved in a research program on the toxicity of oxygenated fuel additives. The position requires a recent Ph.D in Chemistry, Biochemistry, Pharmacology, Toxicology or related disciplines. Experience with pharmacokinetics, in vivo animal studies, and analytical techniques (e.g. HPLC, NMR, GC, GC/MS) is desirable.

CIIT offers competitive salaries, attractive benefits and a stimulating work environment, including co-workers with diverse backgrounds. CIIT is located in Research Triangle Park, NC which offers many cultural and recreational activities as well as access to three major research universities. Interested candidates should send their CV to: Human Resources Office, CHEMICAL INDUSTRY INSTITUTE OF TOXICOLOGY, P.O. Box 12137, Research Triangle Park, NC 27709. Please refer to the "Postdoctoral Fellow-Chemical Disposition" position. Responses received after November 15, 1995 will not be considered. CIIT is an Equal Opportunity Employer M/F/D/V.





THE SALK INSTITUTE

Postdoctoral Position in Organization and Development of Visual Cortex

A position is available to study neuronal circuitry in visual cortex. Studies focus on both developing and mature circuitry to address how specific circuits contribute to visual function and the mechanisms responsible for their development. A variety of in vivo and in vitro methods are used, including scanning laser photostimulation to assess the sources of local input to individual neurons (PNAS 90, 7661-5; Science 265, Current Biology 4, 1010-2). A doctoral-level degree is required and a strong background in neurobiology is preferred.

Applicants should send curriculum vitae, statement of research interests and experience, and names of three references to:

Dr. Edward Callaway The Salk Institute 10010 N. Torrey Pines Road La Jolla, CA 92037

THE SALK INSTITUTE IS AN AFFIRMATIVE ACTION EMPLOYER.

SENIOR ACCELERATOR PHYSICIST

Oak Ridge National Laboratory (ORNL) is seeking a senior scientist to assemble a group to design the accelerator systems for a highpowered, pulsed, spallation neutron source. Applicants should have a PhD and/or extensive experience in designing accelerator systems (ion sources/linacs/fast cycling synchrotrons/accumulator rings), in beam optics and integration, and experience in managing a design group. The tasks include working with ORNL management to assemble an accelerator design team, to define the scope of the accelerator design, to interface with existing ORNL spallation source design efforts, and to work with other DOE laboratories, industry, and universities to achieve an integrated conceptual

design for a spallation neutron source. The position becomes available October 1, 1995.

ORNL, a multipurpose research facility managed by Lockheed Martin for the U.S. Department of Energy, offers a competitive compensation and benefits package, including relocation. For immediate consideration, submit a resume to: Search Committee, c/o B.R. Appleton, Associate Director for Advanced Materials, Physical, and Neutron Sciences, Dept. SCI-11, Oak Ridge National Laboratory, P.O. Box 2008, Oak Ridge, TN 37831-6240.

ORNL is an equal opportunity employer committed to building and maintaining a diverse workforce.



MARINE BIOLOGICAL LABORATORY

1996 Summer Courses

BIOLOGY OF PARASITISM: Modern Approaches (June 13 - August 16). This course, for students, postdocs and faculty, focuses on the molecular basis of parasite function and the host/parasite interaction, with special emphasis on the most recent and exciting developments in this area. The course has four sections: cell biology, immunology, molecular biology, and biochemistry. Each section includes daily lectures from course faculty and outside speakers, and intensive laboratory experimentation. Limited to 16 students. Director: Stephen L. Hajduk, University of Alabama at Birmingham.

EMBRYOLOGY: Cell Differentiation and Gene Expression in Early Development (June 13 - July 27). An advanced level course intended for graduate students, postdoctoral fellows, and other research scientists who wish a current treatment of major issues in the experimental analysis of developmental biology of the embryo, and the diverse intellectual approaches now useful in this field. Limited to 24 students. Directors: Eric H. Davidson, California Institute of Technology; Michael Levine, University of California, San Diego; and David R. McClay, Duke University.

MICROBIAL DIVERSITY: (June 16 - August 1). An intensive laboratory and lecture course intended for graduate or postdoctoral students as well as established investigators who desire to become competent in microbiological techniques for isolation and working with a broad range of microbes. Microbial diversity will be described and analyzed in biochemical, physiological, and selected molecular biological terms. Limited to 20 students. Directors: Edward R. Leadbetter, University of Connecticut; and Abigail Salyers, University of Illinois.

NEURAL SYSTEMS & BEHAVIOR: (June 16 - August 9). Intended for graduate and postdoctoral students as well as established investigators. This course focuses on the neural basis and plasticity of behavior. Twenty students participate in intensive laboratories/lectures which combine state-of-the-art neurobiological techniques with behavioral analyses. Directors: Janis C. Weeks, University of Oregon; and Harold H. Zakon, University of Texas.

NEUROBIOLOGY: (June 16 - August 17). An intensive course in molecular and cellular neurobiology for doctoral and postdoctoral students and established investigators. Lectures will offer a systematic discussion of fundamental issues and research paradigms; work in the laboratories will address these issues using the full range of contemporary physiological, molecular, and structural techniques. Limited to 12 students. Directors: Gary Banker, University of Virginia; and Daniel V. Madison, Stanford University.

PHYSIOLOGY: Cellular and Molecular Biology (June 16 - July 27). For a class of 36 pre- and post-doctoral students who desire training in state-of-the-art methods and research strategies in genetics, physiology, and cellular and molecular biology. Pre-doctoral students and physician scientists beginning their laboratory training are particularly encouraged to apply. Interested students may apply for 2-4 weeks of postcourse research starting July 29. Director: Mark S. Mooseker, Yale University.

APPLICATION DEADLINE: March 1, 1996

TUITION: \$3,500

FINANCIAL AID: Students who request financial aid generally receive substantial awards. Travel supplements are usually available for non-U.S. residents. Financial Aid requests are not a factor in admissions decisions.

For application forms, contact: Admissions Coordinator, Marine Biological Laboratory, 7 MBL Street, Woods Hole, MA 02543, (508) 289-7401; Internet: admissions@mbl.edu; World Wide Web: http://www.mbl.edu.

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MARINE BIOLOGICAL LABORATORY

UCLA NEUROSCIENCE

The University of California Los Angeles, as part of a major initiative in neuroscience, is seeking to fill three tenure-track positions, at the assistant professor level, in the UCLA College of Letters and Science. We invite applications from individuals doing research in the following areas:

- (1) **molecular cell biology:** molecular analysis of cellular processes such as synaptic transmission and neural integration;
- (2) **systems neurobiology:** studies of mulitneuronal networks, from small ensembles to circuitry underlying complex behavior; and
- (3) **behavioral neuroscience:** neural basis of learning. Outstanding applicants in other areas of behavioral neuroscience, especially visual or cognitive neuroscience, will be also be considered. This appointment will be made in the Department of Psychology.

All appointees will teach undergraduate and graduate courses in their broad and specialty areas of training and will participate in interdepartmental programs in neuroscience.

For all positions, submit a *curriculum vitae*, reprints, preprints, and a statement of research interests, plans and goals. Also arrange for three letters of recommendation to be sent to the appropriate search committee, Send applications and letters by December 31, to appropriate search committee. For positions (1) or (2) send application to Search Committee, Molecular Cell Biology or Systems Neurobiology, Brain Research Institute, UCLA, Box 951761, Los Angeles, CA 90095-1761; for position (3), send application to BNS Search Committee, Department of Psychology, Box 951563, Los Angeles, CA 90095-1563.

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

PHARMACOLOGICAL SCIENCES

Postdoctoral Scientist

SmithKline Beecham, a worldwide leader in pharmaceutical research, has a challenging opportunity for a Postdoctoral Scientist to join our Department of Cardiovascular Pharmacology.

The selected individual will perform site directed mutagenesis on catecholamine receptors, and characterization of the pharmacology of these receptors via radioligand binding assay, in order to determine potential sites of agonist-receptor interaction. Duties also will include advising staff on RNA isolation and preparation of subtractive libraries. Communication of results via publications and presentations at scientific meetings is expected.

Qualified candidates will have a PhD in Pharmacology or Molecular Biology, plus experience in performing site directed mutagensis and transient expression of mutant proteins. Experience with RNA isolation from native tissues is also required. Familiarity with adrenoceptor pharmacology and radioligand binding assays is desirable. Excellent oral and written communication skills are essential.

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Roger Tsien, University of California, San Diego "Imaging Proteins and Gene Expression in Living Cells: GFP, beta-Lactamase, and Beyond"

Advanced Imaging Technology and Reporter Measurement

Masafumi Oshiro, Hamamatsu Photonics USA Ted Salmon, University of North Carolina Scott Fraser, California Institute of Technology Keith Wood, Promega Corporation

Luciferase Applications

Jeremy Tavare, University of Bristol, U.K.
Stephen Frawley, Medical University of South Carolina
Andrew Millar, University of Warwick, U.K.
Lionel Jaffe, Woods Hole Marine Biological Laboratory

Applications of Green Fluorescent Protein and its Derivatives

Tulle Hazelrigg, Columbia University Jim Haseloff, Medical Research Council, U.K. Pamela Silver, Harvard Medical School

Abstracts may be submitted for poster presentation. The abstract deadline is January 15, 1996. *Registration fee*, including all meals and accommodation: Students \$295, all others \$385

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1 Bungtown Road, Cold Spring Harbor, NY 11724 email meetings@chsl.org fax: 516 - 367 - 8845 phone: 516 - 367 - 8346 w3 site http://www.cshl.org/

California Institute of Technology Assistant Professor of Planetary Science

A tenure track faculty position is available for a planetary astronomer in the Division of Geological and Planetary Sciences. Initial appointment is for four years and expected to be at the assistant professor level. Completion of the Ph.D. is required. Observational experience in research involving the planets, planetary systems other than the Solar System, and associated instrumentation is highly desirable. The candidate is expected to be sufficiently experienced to use the optical, infrared and microwave observatories of Caltech, such as the Palomar and Keck telescopes, the Owens Valley Radio Observatory Millimeter Array and the Caltech Submillimeter telescope, as well as the instruments of the National Observatories. Interest and experience in observational, multi-element telescope arrays is also desirable since it is likely that high angular resolution observations are required for meaningful progress in these areas of research

Please send resumes, including three letters of recommendation, to Professor Duane O. Muhleman, Chair of the Planetary Science Search Committee, Division of Geological and Planetary Sciences, 170-25, California Institute of Technology, Pasadena, CA 91125, ph. 818-395-6186.

The California Institute of Technology is an Equal Opportunity/Affirmative Action Employer. Women, minorities, veterans, and disabled persons are encouraged to apply.

Miami

ATTENTION ALL MEDICAL AND GRADUATE STUDENTS

CALL FOR ABSTRACTS

The 22nd Annual Eastern Student Research Forum is a four day regional meeting held at the University of Miami School of Medicine in Miami, Florida. The Forum is intended to provide an opportunity for participants to present their original basic science or clinical research. Medical residents, medical, graduate, and M.D./Ph. D students from any medical or graduate school are eligible to submit an abstract. Many of the scientific sessions are integrated into the Grand Rounds of various clinical departments at the University of Miami. Outstanding presentations will be honored with cash awards, plaques and an invitation to the National Student Research Forum. A limited number of travel awards are available, based on merit and financial need. Deadline for submission is December 7, 1995

For further information and an application, please write or call:

Eastern Student Research Forum University of Miami School of Medicine P.O. Box 016960 (M819) Miami, Florida 33101 Phone (305) 243-3505 Fax (305) 325-1692

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Graduate Fellwships Center for the Study of Evolution and the Origin of Life UCLA

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CSEOL invites applications for five graduate fellowships for 1996-97. In addition to support provided Fellows by UCLA departments, CSEOL will grant each Fellow a stipend of \$5,000 per year, for each of the first two years of graduate study, with no teaching or other duties. Stipends may be used for any purpose the Fellow deems appropriate -- travel, lodging, attendance at scientific meetings, purchase of books, computers, research equipment -- for any purpose, without restriction. Fellows are included in a select group of graduate students invited to interact with Center faculty in a weekly dinner/seminar/discussion series. Applicants should be planning to carry out doctoral research under the direction of a CSEOL faculty member in a subject area relating to virtually any aspect of evolution -- of the cosmos, of the solar system, of Earth, of the environment, of life, of humans. Areas of particular interest for 1996-97 include (1) planetary evolution and exobiology; (2) origin and early evolution of life; and (3) biochemical evolution and molecular phylogeny. Faculty are member of the UCLA Departments of Anthropology, Astronomy, Atmospheric Sciences, Biology, Chemistry & Biochemistry, Computer Science, Earth & Space Sciences, Economics, Geography, History, Microbiology Philosophy, Psychology, and Sociology; the School of Medicine; the School of Public Health; the Institute of Geophysics and Planetary Physics; and the Molecular Biology Institute. Fellowship applicants must apply (preferably, by 15 March 1996) both to an appropriate academic department and to CSEOL. For application forms and a list of CSEOL members, contact:

> CSEOL Fellows Committee Geology Building, Room 5687 University of California, Los Angeles Los Angeles, CA 90095-1567 Teelephone: (310) 825-11700 FAX: (310) 825-0097 e-mail: SCHOPF@ess.ucla.edu

MOLECULAR BIOLOGISTS

Neurogen Corporation, a rapidly growing biopharmaceutical company focusing on therapeutics for neuropsychiatric disorders is currently expanding it's staff in Molecular Biology.

Neurogen is currently seeking highly motivated individuals for the following positions:

- 1) Postdoctoral Positions: Areas of intended research include growth factors, signal transduction regulation, transcriptional regulation, and neurodegenerative diseases. Applicants should have a recent Ph.D. and extensive research training in molecular biology covering areas of gene isolation and expression. A background in neuroscience is an advantage, but not essential. The appointment is for 2 years with the possibility of renewal for a third year. Neurogen Corporation provides a highly interactive, close-knit research environment capable of providing postdoctoral trainees an in-depth perspective on the development of pharmaceuticals while maintaining cutting-edge research in molecular biology,
- 2) Research Associates: Candidates should have either a BS or MS in the biological sciences with 4-5 years experience in a molecular biology laboratory. Hands-on experience with recombinant DNA techniques including gene isolation, cloning, PCR, and tissue culture essential

Neurogen is located in Branford Connecticut, close to New Haven. We offer a stimulating intellectual environment involved in cutting edge scientific discovery for new therapeutic drugs for central nervous system disorders. Neurogen has a comprehensive compensation program consisting of competitive salary, equity participation, 401K plan, health and medical programs, as well as relocation assistance.

Interested candidates should send resumes with cover letter indicating which position you are applying for to: Vivienne Formichella, Personnel Department, Neurogen Corporation, 35 Northeast Industrial Road, Branford, CT 06405.

POSTDOCTORAL FELLOW/RESEARCH ASSOCIATE IN MOLECULAR BASIS OF DISEASE

The Department of Pathology, Division of Molecular and Cellular Pathology, at the University of Alabama at Birmingham announces the availability of postdoctoral positions in the general area of signal transduction in disease mechanisms. Candidates should have a Ph.D., or equivalent degree. Experience in molecular biological, cell biological, or biochemical techniques is preferred. The following faculty and their areas of interest are participating in the training program:

Victor M. Darley-Usmar, Ph.D. -

Mechanisms of nitric oxide and free radical signaling in atherosclerosis and

ischemic injury.

Hanjoong Jo, Ph.D. -

Mechanisms of G-protein dependent signaling pathways in the regulation of endothelial cell function in response

to shear stress.

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cular diseases.

Joanne E. Murphy-Ullrich, Ph.D. -

Mechanisms of matrix protein signaling in the regulation of endothelial cell adhesion and growth factor activity/expression.

Interested candidates should send a curriculum vitae, the names of three individuals to serve as references, and your particular project(s) of interest by January 15, 1996

Dr. Thomas M. Lincoln, Director Division of Molecular and Cellular Pathology Division of Motecular and Centular Fathology
Department of Pathology
The University of Alabama at Birminghan
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Inter-American Institute for Global Change Research (IAI) Position Announcement -Scientific Officer

THE IAI

Established by 11 countries in 1992, the Inter-American Institute for Global Change Research (IAI) pursues a scientific agenda through a network of institutions and professional associates. Initial research priorities of the Institute include studies of tropical ecosystems and biogeochemical cycles, the impacts of climate change on biodiversity, El Nino-Southern Oscillation and interannual climate variability, ocean/atmosphere/land interactions in the intertropical Americas, coercivily studies processes in the intertropical Americas. oceanic/coastal/estuarine processes in temperate zones, temperate ter-restrial ecosystems, and high latitude processes.

These priorities were selected because they are regionally relevant for policy-making and will foster cooperation among research entities (including extra-regional ones), strengthen global change research capabilities and infrastructure of the region, and improve public awareness and information relating to global environmental conditions, resource management, and sustainable development. Through its research the new Institute earnestly attempts to forge linkages between the products of scientific research and the region's most pressing environmental issues so that those products are available to decision-makers interested in implementing sustainable development in the Americas.

The Institute's Directorate (IAI's administrative organ), composed of a small staff which includes a Director, Financial Officer, and Scientific Officer, is located at the main campus of Brazil's National Institute for Space Research (INPE) in São Jose dos Campos, São Paulo. The Directorate, the Scientific Advisory Committee (IAI's scientific advisory organ), and the Executive Council (IAI's executive organ) are funded by voluntary contributions of member's countries extravely grants complement these voluntary contributions of member's countries; extramural grants complement these voluntary contributions to finance major research programs and specific projects. An endowment may be created in the future to diversify further the funding base.

THE POSITION

1. Main responsibilities - Reporting to the IAI Director, the Scientific Officer (SO) is chiefly responsible for proposing and implementing research-related policies and systems, for monitoring (and preparing, on a timely basis, required reports on) the scientific progress of the Institute, and for supporting the work of the Scientific Advisory Committee so that the research agenda and related priorities are transparent, activities are efficiently undertaken through decentralized and collaborative efforts and the Institute is fully accountable to its memcollaborative efforts, and the Institute is fully accountable to its member countries and donors.

In the monitoring role, the SO is responsible for ensuring that clear purpos es and end-products (quantifiable and measurable, to the extent possible) are in place for each research activity, and that peer review processes are utilized objectively and on a timely basis. The SO will also take responsibilutilized objectively and on a timely basis. The SO will also take responsibility for seeing to it that research processes and research end-products, in each instance, include appropriate interfaces with the policy communities of the Americas. And the SO will serve as the principal advisor to the Scientific Advisory Committee and the Director in their designated roles as reviewers of IAI proposals, projects, and programs. In the supporting role, the SO serves as the primary liaison with IAI Research Consortia, Centers, and Institutions concerning project design, implementation, and monitoring, and is to assist them in identifying sources of funding for the work they propose. Close and productive relations must be built and maintained between the SO and the donor community interested in global change research.

In addition, the SO will be responsible for assisting with the preparation of scientific papers by IAI's Directorate, serving as a scientific spokesperson for the Institute, and developing beneficial contacts with the many regional and international entities, conventions, and protocols involved in global change issues.

- 2. Qualifications The SO should be an internationally recognized authority with a wide range of experience and knowledge of the technical and scientific issues relating to global change. High-level research accomplishments should be evidenced, as well as a demonstrable record of (and commitment to) successfully linking research to policy decision-making. Strong conceptualizing skills are sought, along with skills of verbal and written communication in English and another language of the region. Experience on research project formulation, monitoring and evaluation is desired. Experience working in multidisciplinary research environments is desired, as well as an established network of contacts in the donor community. The SO must hold a Ph.D. degree or equivalent in a science relevant to the field of inquiry, including a social science. including a social science.
- 3. Appointment Terms SO will be appointed as soon as possible for a five-year term which can be renewed. An internationally competitive total compensation package will be provided.

APPLICATION INSTRUCTIONS

Applications and nominations of interested candidates should include Applications and nominations of interested candidates should include (a) a cover letter which directly relates the main responsibilities and qualifications of the position to the candidate's qualifications, (b) a current curriculum vitae that includes a listing of scholarly publications authored, and (c) the names/addresses/phones/faxes of three referees. These materials should be sent to the address shown below. The proposed deadline is December 29, 1995, but applications will be accepted until a suitable candidate has been identified.

> IAI Director, c/o INPE, Av. Astronautas 1758 São José dos Campos, SP Brasil

> > : EOE/M/F/D/V

California Institute of Technology Postdoctoral Fellowships in Geological and Planetary Sciences

The California Institute of Technology announces two fellowships in earth and planetary sciences:

The O.K. EARL POSTDOCTORAL FELLOWSHIP and The TEXACO POSTDOCTORAL FELLOWSHIP.

These awards are from funds endowed by ORRIN K. EARL, JR. and by the TEXACO PHILANTHROPIC FOUNDATION. Each fellowship carries an annual stipend of \$34,000 and offers a research expense fund of \$1,000 per year and one-way travel to Pasadena. The duration of each appointment will normally be for two years, contingent upon good progress in the first year, and beginning with the 1996-97 academic year. Fellows are eligible to participate in Caltech's health and dental program.

These fellowships have been established to support the research of scientists typically within two years after receipt of the Ph.D. The intent of the program is to identify and support innovative and creative work in the earth and planetary sciences, with particular emphasis on interdisciplinary work. Applicants with training in physics, chemistry, biology or computer sciences are urged to apply. The Caltech faculty is currently active in geobiology, geochemistry, geology, geophysics, petrology, seismology and atmospheric and planetary sciences. It is expected that each fellowship holder will be hosted by a division professor (designated by the division chair) who will contribute to the fellowship support both financially and by providing intellectual guidance.

Application forms may be obtained by writing to Prof. E.M. Stolper, Chair, Division of Geological and Planetary Sciences, Mail Code 170-25, California Institute of Technology, Pasadena, California 91125 (e-mail:stover@arms.gps.caltech.edu).

COMPLETED APPLICATIONS WITH REFERENCES SHOULD ARRIVE AT CALTECH BY MONDAY, JANUARY 15, 1996.

Fellowship candidates will automatically be considered for other available postdoctoral positions at Caltech in their fields of interest.

Caltech is an Affirmative Action/Equal opportunity Employer. Women, minorities, veterans, and disabled persons are encouraged to apply.

FACULTY POSITION IN PHARMACOLOGY UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL SCHOOL OF MEDICINE

The Department of Pharmacology invites applications for a tenure-track position at the Assistant Professor level. Qualified candidates will be considered at the Associate Professor level. Applicants must have a relevant Ph.D. or M.D. degree and at least two years of postdoctoral training. Preference will be given to individuals with demonstrated competence in applying modern techniques of biophysics and biochemistry to fundamental structure/function problems in the broad area of signal transduction. The successful candidate will be expected to establish a well-funded, independent research program and to participate in the graduate and professional teaching activities of the Department.

The strengths of the Department include active research programs in a) signal transduction and growth regulation, b) neuropharmacology and intracellular signaling, c) nucleic acid biochemistry and molecular mechanisms or resistance to anti-cancer drugs, d) cell adhesion mechanisms, e) membrane protein structure/function and f) membrane receptor and ion channel biology. The Department faculty interact extensively with basic and clinical scientists in other departments and with academic and industrial scientists throughout the Research Triangle. The Department conducts a strong graduate program supported by an NIH training grant.

University shared instrumentation facilities include digitized video microscopy, high field biological NMR, single crystal X-ray, confocal and electron microscopy and protein/peptide synthesis facilities. In addition, the university maintains EPR, FT-IR, fluorescence, CD, and mass spectrometers. University computer resources include a major molecular modeling and graphics facility, and VAX 6030 and Convex C240 minisupercomputers, as well as access to the North Carolina Supercomputing Center, which houses a Cray YMP 8-432.

The University of North Carolina is committed to increasing representation of women and members of minority groups on its faculty and particularly encourages applications from such candidates. Applicants should send a curriculum vitae, a statement of research plans, and the names of three referees to: C.J. Der, Faculty Search Committee Chairman, Department of Pharmacology, CB#7365, University of North Carolina, Chapel Hill, NC 27599-7365. UNC-CH is an Equal Opportunity/Affirmative Action Employer.

The Department of Pharmacology, University of Wisconsin

announces an

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Mabel Hokin-Neaverson - Univ. of Wisconsin.

Richard A, Anderson - Univ. of Wisconsin.

Michael J. Berridge - Cambridge University.

Lewis C. Cantley - Harvard University.

David E. Clopham - Mayo Clinic and Foundation.

Shamshad Cockcroft - University College London.

Scott D. Emr - Univ. of Cal.-San Diego.

John H. Exton - Vanderbilt University.

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Robert H. Michell - Univ. of Birmingham.
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Sue Goo Rhee - Natl. Inst. of Health
Len Stephens - Cambridge University.
Jeremy W. Thorner - Univ. of Cal.-Berkeley.
Michael D. Waterfield - Ludwig Institute.
Robin F. Irvine - Cambridge University.

Philip W. Majerus - Washington University

Thomas F. J. Martin - Univ. of Wisconsin,

For registration and poster session information, please contact: Marie Ellingson, Conference Services-Wisconsin Union 800 Langdon St., Madison, WI 53706. (608) 262-2755. Fax (608) 262-5487.

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Bacterial adaption in complex environments

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Further details can be obtained by contacting Prof Staffan Normark (tel 46 8 735 11 10 or fax 46 8 735 10 40) or Dr Lars G Burman (tel 46 8 735 14 23 or fax 46 8 735 14 22).

Applications, which should include a full CV, a brief statement of research interests and experience and the names of two referees, should be sent to Professor Staffan Normark, Swedish Institute for Infectious Disease Control, S-105 21 Stockholm, Sweden. The closing date for applications is January 2, 1996

PRINCIPAL SCIENTIST Gastrointestinal Physiology

Wyeth-Ayerst Research, a division of Fortune 150 American Home Products Corporation, has an opportunity available in the Nutritional Research Department in Radnor, PA.

Reporting to the Sr. Director of Nutritional Research, you will conduct research related to the interaction of nutrition with the gastrointestinal function. Your primary focus will be on infant formula and pediatric enteral products, although other areas may be explored.

The successful candidate must be a Ph.D. with 5+ years experience in gastrointestinal physiology. A working knowledge of gastrointestinal physiology, intraluminal digestion and absorption of nutrients, and familiarity with techniques for in vitro and in vivo assessment of gastrointestinal physiology and pathophysiology are required. Experience with nutrient modulation of gastrointestinal micro flora and a fundamental knowledge of nutrition and nutritional assessment techniques are essential. Excellent verbal/written communication skills, the ability to develop multiple research projects simultaneously and under minimal supervision, and to interact with a multi-disciplinary team of scientists are also required.

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GLOBAL CAREER OPPORTUNITIES



MEDICAL RESEARCH COUNCIL

Laboratory of Molecular Biology, Cambridge

TENURE TRACK POSITION IN NEUROBIOLOGY

Applications are invited from independent scientists to develop a programme of basic molecular research in the Division of Neurobiology.

Current topics of particular interest are mechanisms of synaptic transmission, electrophysiological studies of neuronal function gene regulation and molecular processes underlying learning, memory and neuro-degeneration.

Successful applicants will be able to interact closely with staff in other Divisions of the Laboratory of Molecular Biology. Research in the Laboratory centres around a variety of projects that explore the structures and properties of proteins, nucleic acids, membranes and organelles, and are aimed at understanding cellular processes at the molecular level. An excellent range of cell culture and biochemical facilities, shared instrumentation and workshops is available.

Salary will be at an appropriate point on the MRC Non-Clinical Scientific scale (equivalent to the University Academic scale). Further information can be obtained from Dr. Nigel Unwin (01223) 402492.

Applications, including CV, a brief description of research interests and the names and addresses of two professional referees should be sent as soon as possible, quoting reference TT/NU to:

Dr. Rosie Ward Personnel Manager MRC Centre Hills Road Cambridge CB2 2QH, UK

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GLOBAL CAREER OPPORTUNITIES

Associate/Assistant Professorship in Mycology

Applications are invited for a tenured Associate Professorship in Mycology at the Department of Ecology and Molecular Biology, Royal Veterinary and Agricultural University (KVL) at Copenhagen, Denmark. The successful applicant is expected to take up the position February 1, 1996 or shortly after.

The position primarily involves research on the interactions between microfungi and bacteria, animals and plants in the soil, including microfungal activity and population dynamics, studies of fungal physiology, e.g. cell differentiation and metabolite production, are also part of the research. The associate professor is expected to cooperate with the present research group in Soil Microbiology at the Microbiology Section, but it is expected that departmental research in entomophageous and nematophageous fungi should also benefit from the research. The associate professorship includes teaching and supervision of undergraduate and graduate students, as well as guidance of assistant professors.

The scientific qualifications of the applicant are of major importance and should include a publication record at an international level within the area of the microfungal ecology and physiology. Scientific experience corresponding to a Ph.D. and subsequent employment as assistant professor for 3-4 years is usually required. The applicant should have research experience with cytochemical, immunological or molecular DNA methods to detect and identify specific microfungi and their products in natural environments. Teaching and supervision experience at the graduate level or higher must be documented. The employed candidate is expected to master the English language and soon acquire the Danish language for teaching and supervision of students.

If no applicants are qualified for the associate professorship as described above the position will be filled at the level of assistant professorship, which is a 3-year training position to qualify as an associate professor. Candidates for the assistant professorship should have a Ph.D. from 1980 or later within mycological

research as described above. The candidate must be talented and highly motivated for international level research.

Applications shall include curriculum vitae in 4 copies with personal data, publication list and proof of educational degrees and teaching qualifications. Publications which the applicant wishes to include for evaluation must also be enclosed in 4 copies. All CVs and enclosures should be sorted in 4 identical sets. Applicants are encouraged to write a short memorandum summarizing their most important scientific contributions and describing their teaching skills and experience.

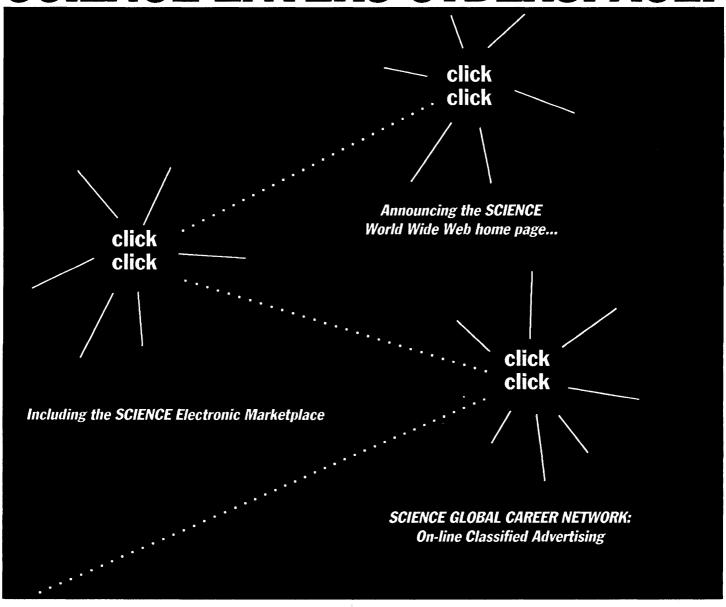
Applications will be evaluated in accordance with the Danish Ministry of Education Directive 728, dated September 9, 1993. During evaluation, the committee may request further information and material from the applicants. The unabridged recommendation of the committee will be sent to all applicants. Terms of employment will be in accordance with the standard agreement between the Danish Ministry of Finance and AC (the federation of graduate employee unions).

Further information about the Associate professorship in Mycology may be obtained from Associate professor Jans Wolstrup (Head of Department) on tel. (+45) 35 28 26 28 or Professor Jan Sørensen on tel. (+45) 35 28 26 26. Applications marked 621-00113-33 must be received by the Royal Veterinary and Agricultural University, Administrationen, Bülowsvej 13, 1870 Frederiksberg C (Copenhagen), Denmark no later than January 2, 1996.





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We are seeking an external candidate with a strong, well established research program who is using cellular and molecular approaches to study basic neurobiological mechanisms related to neuromuscular disorders. Areas of special interest include trophic/nutritional aspects, axonal growth and regeneration, synapse formation, and animals models of disease and gene therapy, including transgenics. The endowment provides annual research funds to be used at the discretion of the successful candidate. The Bowman Gray School of Medicine of Wake Forest University offers a unique opportunity to interact with neurobiologists with diverse interests that comprise part of a strong and active interdisciplinary Ph.D. Program in Neuroscience with 25 graduate students and over 70 faculty. Send curriculum vitae and a brief one page description of research interests to: Dr. Ronald Oppenheim, Department of Neurobiology and Anatomy, Bowman Gray School of Medicine, Wake Forest University, Winston-Salem, NC 27157-1010. AA/EOE





POSITIONS AVAILABLE IN CROP BIOTECHNOLOGY

Ceregen Technology (formerly the New Products Division of the Agricultural Group) of Monsanto Co. has immediate openings for innovative researchers (with a Ph.D. degree or with a BS and/or MS degree and extensive work experience) for the development of crop transformation technologies. Senior and entry level positions, as well as post doctoral research associate positions, are currently available for the transformation of soybean, cotton, potato, wheat and corn. Candidates should have considerable experience with plant tissue culture and plant transformation techniques. The ability and willingness to work in a multi-disciplinary research team environment is required.

Ceregen Technology is also seeking an outstanding scientist to conduct research in the genetic modification of crops for enhanced resistance to fungal pathogens. A strong ability to propose and design innovative research projects, as well as a Ph.D. degree in Molecular Biology, Biochemistry or Molecular Plant Pathology (with at least 2-3 years of post-doctoral experience in plant/pathogen interactions) is required. Highly experienced non-Ph.D. level scientists will also be considered.

The Monsanto Plant Science Technology group is a world class organization with strong commitment to the discovery of novel traits for crop plants using biotechnology. The qualified individuals will join scientists with expertise in gene expression, plant development, plant growth regulators, plant transformation, molecular biology, and biochemistry to contribute to research to develop products that provide value to agriculture worldwide.

Monsanto is an Equal Opportunity employer. Minorities, females, disabled, and veterans are encouraged to apply. We will provide reasonable accommodations upon request. Please send your resume and a list of at least 3 references to:

Barbara Rhodes Ceregen Technology Monsanto Co. Mail Zone GG4J 700 Chesterfield Village Parkway St. Louis, MO. 63198 bdrhod@ccmail.monsanto.com

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POSITIONS OPEN

USDA, Agricultural Research Service (ARS), Appalachian Fruit Research Station, Kearneysville, West Virginia, announces an interdisciplinary SUPPORT SCIENTIST position for a horticulturist with specialized knowledge and skills in plant tissue culture, genetic transformation of plants, and molecular biology. The incumbent will be part of a multidisciplinary fruit crop improvement research group. Research will focus on the transformation of deciduous perennial fruit species. Salary range is \$29,898 to \$36,174, commensurate with experience. U.S. ditizenship required. For a copy of the vacancy announcement, including application procedures and forms, contact Janie Carr in Personnel, Telephone: 301-344-4569. For further information on the scientific program, please contact: Dr. Ralph Scorza, USDA, ARS, Appalachian Fruit Research Station, 45 Wiltshire Road, Kearneysville, WV 25430. Telephone: 304-725-3451, x322. For a copy of the announcement, including procedures, contact: Janie Carr, Telephone: 301-344-1921.

USDA, Agricultural Research Service Personnel Operations Branch, NS 8305 Ivy Lane, Room 328 Greenbelt, MD 20770-1435

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FELLOWSHIPS. Stanford University's Center for International Security and Arms Control announces one-year fellowships starting fall 1996 for natural scientists and engineers interested in doing research in an interdisciplinary environment on technical and policy problems relating to arms control, international security, defense planning, or defense conversion. Winners spend 12 months in residence at the Center; stipends determined on a case-by-case basis.

Applications due February 16, 1996. For information, write CISAC, 320 Galvez Street, Stanford, CA 94305-6165. FAX: 415-723-0089; Email: hf.gxb@forsythe.stanford.edu.

RESEARCH ASSOCIATE IN PSYCHOPHARMACOLOGY

Position available in July 1996, in a unique and stimulating human psychopharmacology laboratory. Develop, implement, and publish research related to the subjective, reinforcing, and analgesic effects of various psychoactive drugs, including nitrous oxide and opioids. Experimental background and research experience required. Send curriculum vitae, letter of interest, and names and telephone numbers of three references by March 1, 1996 to: James Zacny, Ph.D., Co-Director, Human Psychomotor Performance Laboratory, The Department of Anesthesia and Critical Care, MC4028, University of Chicago Medical Center, 5841 South Maryland Avenue, Chicago, IL 60637. Affirmative Action/Equal Opportunity Employer.

RESEARCH ASSOCIATE IN AUDITION

A research position in the Department of Psychology at the University of Minnesota is available to study the dynamic properties of normal and impaired hearing, with special emphasis on the processing of amplitude and frequency modulation. Applicants must have a Ph.D., preferably in psychology or electrical engineering, and background, including research experience, in psychoacoustics. Skills in qualitative modeling and in computer usage in auditory research are desirable. The research will be conducted at the Psychoacoustics Laboratory under the direction of Dr. Neal Viemeister. Salary: \$40,000 to \$43,000 per year, depending on qualifications and experience. The appointment is as a RESEARCH ASSOCIATE and is for 12 months at 100% time, renewable annually. This is not a tenure-track position but it does offer the possibility of long-term employment. The starting date is approximately February 1, 1996. Candidates should submit a curriculum vitae, three letters of reference, representative reprints and preprints, and a statement of long-term research interests to:

Professor Neal Viemeister Department of Psychology University of Minnesota 75 East River Road Minneapolis, MN 55455 (Email: NFV@nextear.psych.umn.edu)

Applications must be received by December 31, 1995. The University of Minnesota is an Equal Opportunity Educator and Employer.

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POSTDOCTORAL and PREDOCTORAL FELLOWSHIPS are available in reproductive biology for highly qualified applicants. A diverse but integrated program offers research training in molecular, biochemical, cellular, physiological, and behavioral aspects of reproduction. Participating faculty include: James Bartles (sperm surface polarity); Erwin Goldberg (molecular biology of the testis); Mary Hunzicker-Dunn (ovarian signal transduction); J. Larry Jameson (hormonal regulation of gene expression); Jon Levine (neuroendocrinology of peptidergic neurons); Daniel Linzer (molecular endocrinology); Kelly Mayo (gene regulation in reproductive systems); Neena Schwartz (gonadal-pituitary endocrinology); and Fred Turek (seasonal cycles/circadian clocks). Send curriculum vitae and names of three references to: Dr. Jon E. Levine, Department of Neurobiology and Physiology, Northwestern University, 2153 North Campus Drive, Evanston, IL 60208-3520. Applicants must be eligible for NIH training support (U.S. citizens or permanent residents).

OPEN EXAMINATION FOR SENIOR TOXICOLOGIST

The California Environmental Protection Agency, Department of Pesticide Regulation, seeks a SENIOR TOXICOLOGIST in the pesticide regulatory program. Requirements: four years of postdoctoral experience in toxicology or closely related field. This experience must include the interpretation of toxicological findings relative to probable human health and one year of experience in the development and design of toxicological research and investigative studies. The senior toxicologist position is responsible for both supervisory tasks and may perform the most difficult or sensitive work. The position is located in Sacramento. Salary range: \$5,242 to \$6,336 per month. Comprehensive benefits package. Submit application and résumé to the address below by the Final File Date: November 30, 1995.

Department of Pesticide Regulation Personnel/Examination Unit 1020 N Street, Room 126 Sacramento, CA 95814 Attn: SDJ

For State application and announcement **Telephone**: 916-322-4553.

CELL BIOLOGIST

CryoLife, Inc. invites applications and nominations for an individual with training in cell biology. This SCIENTIST position in the Research and Development Department is available immediately. Responsibilities will include proposing, planning, and executing studies of allogeneic connective grafting with emphasis on ligament and vessel prosthetic devices based on natural tissue. Requirements include a doctorate degree in biochemistry or cell biology or pathology and an interest in connective tissue protein chemistry, vascular biology, immunology, or related fields.

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This position is supported by NIH grant funds, but may be converted to a regular, full-time position at a later date. CryoLife, Inc. is known worldwide for cryopreservation of cardiovascular tissues for human transplantation.

Please direct résumés and the names of three references to: KH, Human Resources, CryoLife, Inc., 2211 New Market Parkway, Suite 142, Marietta, GA 30067.

RESEARCH ASSOCIATE POSITION

Candidates must be capable of independent work on the study of the mammalian visual system in vivo and have experience with multielectrode techniques, computerized data acquisition, pharmacology, and whole-cell recording. Requirements also include a Ph.D. in physiology or a related area, a minimum of three years of experience in above duties, and a strong publication record. Salary: \$35,000. Interested candidates should forward their curriculum vitae and have three letters of reference sent to: Dr. Torsten Wiesel, Laboratory of Neurobiology, The Rockefeller University, 1230 York Avenue, New York, NY 10021. FAX: 212-327-7852.

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ANNOUNCEMENT

PARKINSON RESEARCH GRANTS 1996–1997

The National Parkinson Foundation of Miami, Florida invites the submission of grant proposals for Parkinson research. Funding is made available to support basic bench research in Parkinson's disease. The award for a single grant will not exceed \$40,000. None of the monies are to be utilized for administrative overhead or travel expenses. The application deadline is February 1, 1996. Funding will commence on June 1, 1996. It is required that proposed studies specifically focus on mechanisms involved in the disease process and that they have the potential of finding the cause and prevention of Parkinson's disease. Scientists entering the field of Parkinson research are encouraged to apply. Proposals will be assessed by the National Parkinson Foundation Scientific Advisory Board. To obtain submission information please write to:

National Parkinson Foundation Research Grants Administrator 1501 N.W. Ninth Avenue Miami, FL 33136

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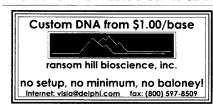
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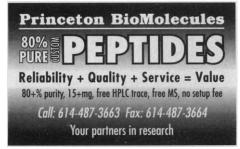
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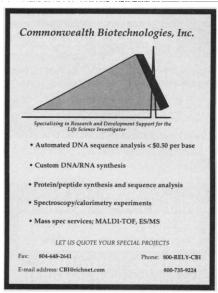
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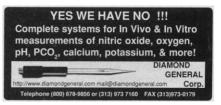
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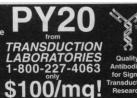


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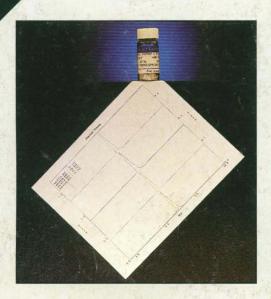
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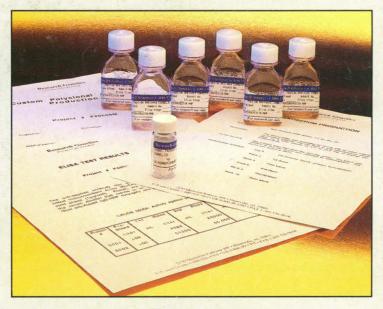
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