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Circle No. 42 on Readers' Service Card
Image Analysis Software
Intelligent Quantifier (IQ) image analysis software is a self-installing, self-tutoring program that supports whole band one-dimensional analysis, two-dimensional electrophoresis, blot analysis, and colony and plaque counting. A user can annotate and compare images, and even prepare reports, without leaving the keyboard using Microsoft Excel and Word, Lotus 1-2-3, and WordPerfect. Bio Image. Circle 137.

Recombinant Screening Kit
The ScreenTest recombinant screening kit allows 3-hour, polymerase chain reaction (PCR)-based recombinant insert analysis directly from transformed colonies. No time-consuming overnight inoculations, DNA mini-preparations, or restriction enzyme digestions are required. The kit’s unique primers contain highly conserved complementary sequences and were designed to be asymmetrical to the multiple cloning sites in plasmids, making it possible to determine insert presence and orientation by agarose gel analysis of the PCR products. When the ScreenTest primer set is combined with a user-defined, insert-specific primer, characteristic banding patterns will verify insert orientation. Stratagene. Circle 138.

Dot Blot Analysis
The InstantImager speeds up the analysis of dot blots by direct nucleic quantitation of the radiolabeled material. Whether the experiment is to detect the number of copies of a gene in a genome or the specificity of a polymerase chain reaction, the InstantImager provides linear quantitation with minimal sample handling. The unit provides accurate results with fewer steps than any other method of quantitation. Packard Instrument. Circle 139.

Antibodies
A monoclonal antibody (mAb) that is highly specific for HSP27, a heat shock protein associated with breast and gastric cancer, is available. Amersham International. Circle 140.

Sheep polyclonals are available to ATF-1, cMYC, EGFr, endothelin B-MC2, human GTPase activating protein, glucose transporter, HIV-rev, HIV-TAT, LYN, MAP kinase, RAL-A, and SOS1-B6. Four new mAbs are available specific for mycoplasma species. Maine Biotechnology Services. Circle 141.

Polyclonal antibodies are available against four HOX proteins: A10, B6, B7, and B4. These antibodies were developed using synthetic peptides and can be used in protein immunoblotting, immunoprecipitation, and supershift experiments. Berkeley Antibody. Circle 142.

Fragment Analysis Software
Version 2.0 of RFLPscan software is a Windows program for performing genetic analyses derived from DNA restriction fragment patterns, DNA fingerprints, protein typing patterns, and other identity-profiling gel images. It automatically calculates molecular weight and isoelectric points. It can analyze image data from a number of different sources including output from film densitometers, flatbed scanners, charge-coupled device cameras, storage phosphor devices, and radiometric detectors. RFLPscan provides the tools to complete the analysis of samples from several disciplines, and to archive the data for future retrieval. It can be used in phylogenetic studies and genetic linkage analysis, forensic and paternity testing, agricultural breeding programs, identification and relatedness of organisms by genetic typing, quality control monitoring of cell lines’ purity and genetic stability in bioprocessing facilities, and diagnostics in genetic diseases. Scanalytics. Circle 143.

Solid Phase Extraction System
PROSPEKT is a solid phase extraction system for high-performance liquid chromatography (HPLC) that automates the tedious sample preparation and handling steps required before analysis. It consists of three modules: a unit that automatically changes cartridges and injects directly into the HPLC column; a solvent delivery unit, which selects and delivers up to 16 solvents to the cartridges at constant flow rates and high pressures; and an autosampler that delivers precise amounts of sample to the disposable cartridges. Varian Associates. Circle 144.

The 1994–1995 edition of the National Institute of General Medical Sciences’ Human Genetic Mutant Cell Repository Catalog includes human cell cultures and DNA samples in the following categories: inherited metabolic disorders with characterized mutations, well-characterized chromosomally aberrant cell cultures, CEPH Reference Families collection, a human diversity collection, and human/rodent somatic cell hybrid mapping panels. The catalog includes 5883 cell cultures and 458 DNA samples. Coriell Cell Repositories. Circle 149.

Ion Channel & Receptor Ligands
Ion Channel & Receptor Ligands wall chart illustrates activators, agonists, antagonists, blockers, and inhibitors for channels, enzymes, receptors, and signal transduction. Accurate Chemical & Scientific. Circle 148.

Literature

The elements of quality features a line of quality reagents used in all facets of laboratory and industrial analysis. EM Science. Circle 146.

Biological and body fluid tubing connections just got easier covers many new biotech and medical applications for the MPC line of quick disconnect couplings. New materials increase productivity while reducing risk of fluid contact or contamination. Colder Products. Circle 147.

Size Exclusion Chromatography of Polymers is a technical bulletin that includes applications for size exclusion of cationic, neutral, and anionic polymers. SynChrom. Circle 150.
The Division of Cardiology, Department of Medicine and the Cardiothoracic Research Center invite applications for a full-time, service, ASSISTANT or ASSOCIATE PROFESSOR holding a Ph.D. with an interest in transplantation biology/immunology. A major interest is the development of a program in Xenotransplantation, although individuals with related research interests will be considered. The successful candidate will also participate in the education of graduate and medical students as well as other trainees at the Medical College.

Direct inquiries and curriculum vitae to:

Jeffrey Hosenpud, M.D.
Division of Cardiology
Medical College of Wisconsin
8700 West Wisconsin Avenue
Milwaukee, WI 53226

Equal Opportunity/Affirmative Action Employer

THE UNIVERSITY OF MINNESOTA
DEPARTMENT OF OPHTHALMOLOGY

A full-time, probationary ASSISTANT, tenured AS-
SOCIATE or tenured PROFESSORSHIP in mole-
cular biology is immediately available in the Department of Ophthalmology at the University of Minnesota, with membership in the University’s Institute of Human Ge-
etics. The Department conducts an active Genetic Clinic so that physician-scientists with an interest in conducting both research and a clinical practice, as well as non-clinicians, will be considered. Competitive com-
pensation, generous new laboratory and office space, start-up funds, and access to graduate programs and students are available.

Probationary assistant professor: M.D. and/or Ph.D. required. Demonstrated involvement in quality research accepted or published in peer-reviewed journals. Compe-
tence in community medicine and in the teaching of students. Tenured associate professor: M.D. and/or Ph.D. re-
quired. Professional distinction in research and writing and demonstrated effectiveness in teaching and advising. Tenured professor: Additional academic, scientific, schol-
arily and professional achievements such as establishment of a training program, election to scientific and profes-
sional organizations which recognize excellence and academic contributions, and evidence of a national and international reputation and leadership. Minimum acade-
mic preparation: M.D. or Ph.D. with preference given to candidates with demonstrated interest in gene therapy or molecular approaches to treating ex-
isting disability to obtain funding. Send a curriculum vitae, statement of research interests and at least three letters of reference to: Dale S. Gregerson,
Ph.D., Chairperson, Search Committee, Department of Ophthalmology, Lions Research Building, Room 314, 2001 6th Street SE, Minneapolis, MN 55455. Last day for receipt of applications is January 15, 1995. The University of Minnesota is an Equal Opportunity Educator and Employer.

BIOCHEMISTRY—tenure-track, ASSISTANT PROFESSOR at Bradley University in Peoria, Illinois. The Department of Chemistry invites applications for a faculty position in biochemistry beginning fall 1995. Can-
didates must have a recent Ph.D. in biochemistry and be committed to excellence in teaching at the undergraduate level. Teaching responsibilities will include biochemistry (lecture and lab), introductory chemistry, and possibly an advanced course. Research emphasis could involve biochemistry or a related field. Bradley has strong ties to the USDA National Center for Agricultural Utilization Research in Peoria. Each applicant should send a complete curriculum vitae, three letters of recommendation, statements of teaching philosophy, and a description of research inter-
ests with start-up costs to: Chair, Search Committee, Department of Chemistry, Bradley University, Peo-
ria, IL 61625. To ensure full consideration, applications and supporting materials should be received by January 10, 1995. Bradley University is an Equal Opportunity/Affirma-
tive Action Employer.

INTEGRATIVE BIOLOGISTS
Arizona State University

The Department of Zoology invites applications for two tenure-track positions at the level of ASSISTANT PROFESSOR beginning in fall 1995 from biologists who are studying questions that integrate multiple levels of organization.

Position 1—An integrative biologist who uses an evo-
olutionary or organismal perspective to study questions at the molecular to organismal level. Individuals using the-
oretical, comparative, or Texas approaches in fields such as cellular/developmental biology, neuro-
science, morphology, physiology, and genetics are en-
couraged to apply.

Position 2—An integrative biologist who uses evolu-
tory or ecological perspectives to study questions inte-
grating multiple levels of organization. Applicants at this level are expected to develop a strong research program and write grants.

Applicants are encouraged to apply. Applicants for both positions must have demonstrated a strong commitment to teaching and basic research, and must have a Ph.D. in an appropriate area by August 1995. Applicants should forward a curriculum vitae, selected reprints, statement of teaching philosophy, and three letters of recommendation to:

Dr. Neil F. Hailey, Bradley University, Alna, Peoria, IL 61625-7512. Review of applications will begin December 15, 1995, and continue until positions are filled. Applications from individuals with a Ph.D. in an appropriate area by August 1995.

Arizona State University is an Equal Opportunity Employer.

THREE FACULTY POSITIONS IN BIOLOGY AND EXERCISE AND HEALTH SCIENCE

ALMA COLLEGE

The Alma College Biology Department invites applications for a tenure-track ASSISTANT PROFESSOR to teach introductory biology to either non-science majors or those planning to enter environmental sciences or health sciences areas. Ph.D. and commitment to excellence in teaching and research essen-
tial. We also seek a part-time, non-tenure-track INST-
STRUCTOR to coordinate, prepare, and teach intro-
ducatory biology laboratories. Master’s degree required, teaching experience preferred.

The Department of Exercise and Health Science seeks a tenure-track ASSISTANT PROFESSOR in exercise biochemistry to teach physiology, exercise physiology, exercise biochemistry and pharmacology. Ph.D. and a commitment to liberal arts and interest/ability in estab-
lishing student-faculty research essential. Send a curriculum vitae, and list of references to: Chair, Biology or EHS Search Commit-

FISH AND WILDLIFE ECOLOGY: ASSISTANT or ASSOCIATE PROFESSOR in Fish and Wildlife Ecology, tenure-track, nine-month faculty position avail-
able June 1995 in the Department of Range and Wildlife Management, Texas Tech University. Summer salary is dependent on availability of teaching and research fund-
ing. The position is approximately 50% teaching and 50% research. The applicant should have a Ph.D. in either fisheries, wildlife, or closely related area, preferably with experience with fish and wildlife populations. Preference will be given to individuals with a Ph.D. in population biology/Modeling of processes related to population growth or estimation. Applicants should send curriculum vitae, transcripts, description of research interests, and letters of recommendation. Applications are due by 15 January 1995, to: Dr. Loren M. Smith, Chairman of the Search Committee, Department of Range and Wildlife Management, Texas Tech University, Lub-
bock, TX 79409-2125. Telephone: 806-742-2842; FAX: 806-742-2280; Email: C7LMSSWTTAC1S1.T. EDU. Texas Tech is an Affirmative Action/Equal Opportunity Employer.
FACULTY POSITIONS
MOLECULAR AND CELLULAR PHARMACOLOGY

The Department of Molecular and Cellular Pharmacology at the University of Miami School of Medicine is seeking applications for up to two tenure-track faculty positions, preferably at the ASSISTANT or ASSOCIATE PROFESSOR level or above. The assistant professor position will be available in 1995; rank and salary will be commensurate with experience. Excellent lab space and start-up funds are available. Candidates should be at the M.D. degree (or equivalent), and have an established record of research excellence. Applicants from all areas of molecular/cellular biology and biomedical research are welcome. Researchers with interests in specific areas of molecular/cellular pharmacology/biology are particularly encouraged to apply. The new faculty members will complement existing research efforts in the Department which include regulation of cardiac and skeletal muscle function, ion channels, receptors and signal transduction, function and development of the nervous system, and regulation of gene expression.

Applicants should send a curriculum vitae, description of current and future research interests, and the names and addresses of three referees to: Dr. Joseph S. Eisen, Chairman, Department of Cellular and Molecular Pharmacology, University of Miami School of Medicine, P.O. Box 016189, Miami, FL 33101. An Equal Opportunity/Affirmative Action Employer.

PLANT CYTGENETICS
FACULTY POSITION
UNIVERSITY OF WISCONSIN-MADISON

The Department of Horticulture at the University of Wisconsin-Madison invites applications for an ASSISTANT PROFESSOR position in plant genetics and breeding with 70% research and 30% teaching. The person in this position will be responsible for fundamental research in plant cytogenetics with application to polyploid clonally propagated crops. The successful candidate will have a Ph.D. in plant genetics with demonstrated knowledge of cytokinetica and/or molecular cytogenetics. Experience with polyploid vegetable crops including potatoes is desirable. Application materials should be submitted before January 1, 1995. The position is filled. Salary is competitive and commensurate with training and experience. Applications should send their curriculum vitae, a statement of professional goals, transcripts, and three letters of recommendation to: Dr. P. W. Simon, Chair of Search Committee, Department of Horticulture, University of Wisconsin-Madison, 1575 Linden Drive, Madison, WI 53706. Names, titles and addresses of applicants and nominees cannot be kept confidential. The University of Wisconsin is an Affirmative Action/Equal Opportunity Employer and encourages applications from women and minorities.

CELL BIOLOGIST
UNIVERSITY OF VIRGINIA

The Department of Biology at the University of Virginia is interested in filling a tenured-track faculty position at the ASSISTANT PROFESSOR level. We are seeking a researcher of exceptional promise using molecular, genetic and/or physiological approaches to investigate fundamental questions in cell biology. Applicants should submit curriculum vitae, a summary of past accomplishments, a description of future research plans and teaching interests, and should arrange for three letters of reference to be sent to: Cell Biologist Search Committee, Department of Biology, Gilmer Hall, University of Virginia, Charlottesville, VA 22903-2477. Women and members of minority groups are encouraged to apply and to identify themselves. Screening of applications will begin immediately. The University of Virginia is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

ENVIRONMENTAL HEALTH EFFECTS

The Department of Biological Sciences at Western Michigan University is seeking a tenure-track FACULTY member with expertise in the area of environmental health effects from toxicants or toxins. Emphasis will be given to applicants with professional experience, demonstrating excellence in one or more of the following areas: immunotoxicology, cellular toxicology, pharmacokinetic modeling, exposure assessment, or hazard assessment. An ability to integrate basic and applied research in any of these areas is advantageous. Successful candidates will be expected to seek extramural funding and advising in the Environmental Health Sciences Program (160 B.S. degree majors) and participate in the Institute for Environmental Quality (M.S. degrees with Biology, Chemistry, Environmental Science majors). Teaching responsibilities typically include three upper-level courses (one per quarter) in the environmental sciences curriculum. The applicant will be expected to develop an extramurally funded research program. The University of Michigan, with approximately 17,000 students. The department has 21 faculty and approximately 500 undergraduate and graduate students. The successful candidate will be encouraged to participate in the Biomedical Sciences Ph.D. program which has participating faculty from the Departments of Pharmacology, Biochemistry and Molecular Biology, Physiology and Biophysics, Microbiology and Immunology, and Anatomy, which are located with the School of Medicine. The application deadline is January 31, 1995. Send a letter of application, curriculum vitae, statement of research and teaching goals, and names of three references to: Chair, Search Committee, Department of Biological Sciences, Western Michigan University, 1815 W. Michigan Ave., Kalamazoo, MI 49008-5303.Send a letter of application, curriculum vitae, statement of research and teaching goals, and names of three references to: Chair, Search Committee, Department of Biological Sciences, Western Michigan University, 1815 W. Michigan Ave., Kalamazoo, MI 49008-5303. An Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSORS
Evolutionary Biology, Mammalian Molecular Genetics, Neurobiology of Learning/Memory, and Virology

Applications are invited for five TENURE-TRACK FACULTY positions (one Evolutionary Biologist, one Mammalian Molecular Geneticist, two Neurobiologists interested in Learning and Memory, and one Virologist). The Division of Life Sciences offers the Ph.D. with an emphasis in Life Science. We are seeking candidates whose research interests are in neurobiology. For the Neurobiology of Learning and Memory positions, candidates with demonstrated interests in either the behavioral and/or cognitive aspects of long-term potentiation or the hippocampus are preferred. Research interests include a doctoral degree in the appropriate discipline and postdoctoral training or experience. The Department of Life Sciences invites applications for five tenure-track positions. The Division will provide teaching duties equivalent to three-quarter time and research funds equivalent to one-quarter time. Candidates will be expected to develop strong teaching and research programs that capitalize on the unique interdisciplinary nature of the Department. The Department of Life Sciences is an Equal Opportunity/Affirmative Action Institution. Interested persons are encouraged to apply.

X-RAY CRYSTALLOGRAPHER, ASSISTANT OR ASSOCIATE PROFESSOR, tenure-track (search re-opened)

The new Center for Pharmaceutical Biotechnology invites applications in macromolecular X-ray crystallography. Ph.D. degree or equivalent experience required. Responsibilities include developing and maintaining a high level research program in macromolecular crystallography, and collaborating with other scientists. Experience in macromolecular crystallography and knowledge of protein crystallography is desirable. Applicants should send curriculum vitae and the names of three references to: Dr. Marc B. Giroud, Chair, Department of Pharmaceutical Biotechnology, University of Wisconsin, Madison, WI 53706. An Equal Opportunity/Affirmative Action Employer.

X-RAY CRYSTALLOGRAPHER, ASSISTANT OR ASSOCIATE PROFESSOR, tenure-track (search re-opened)

The new Center for Pharmaceutical Biotechnology invites applications in macromolecular X-ray crystallography. Ph.D. degree or equivalent experience required. Responsibilities include developing and maintaining a high level research program in macromolecular crystallography, and collaborating with other scientists. Experience in macromolecular crystallography and knowledge of protein crystallography is desirable. Applicants should send curriculum vitae and the names of three references to: Dr. Marc B. Giroud, Chair, Department of Pharmaceutical Biotechnology, University of Wisconsin, Madison, WI 53706. An Equal Opportunity/Affirmative Action Employer.

FRESHWATER ECOLOGIST
ASSISTANT PROFESSOR

Tenure-track, Ph.D. required, postdoctoral experience desired. Broadly trained with research interests at the ecosystem to organism level, primarily in aquatic ecosystems. Applicants will include, but are not limited to, ecologists interested in freshwater biology, general ecology, and understanding the effects of water quality on freshwater ecosystems, and the development and implementation of advanced research programs, and the development and implementation of advanced research programs. Applicants should have a Ph.D. in a related field and demonstrate expertise in aquatic ecosystems. Applicants should have a strong record of research accomplishments and a commitment to teaching and research. Candidates will be expected to contribute to the teaching of environmental science at both the undergraduate and graduate level. The University of Virginia is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR (TENURE-TRACK)
UNIVERSITY OF VIRGINIA

The Department of Environmental Sciences invites applications for two ASSISTANT PROFESSORS (tenure-track). These positions are in an interdepartmental department with faculty in hydrology, ecology, geosciences and atmospheric sciences. The successful candidate will be expected to develop strong teaching and research programs that capitalize on the unique interdisciplinary nature of the department. The Department of Environmental Sciences is an Equal Opportunity/Affirmative Action Institution. Interested persons are encouraged to apply.

Ecologist in the areas of estuarine or aquatic ecology. We are seeking a person with an ecosystem (or combined community/ecosystem) emphasis and research interests in ecology and ecosystem processes as biogeographers or aquatic ecologists. Candidates should be prepared to teach a course in fundamentals of ecology and upper-level courses appropriate to the candidate's expertise.

Atmospheric Scientist with research interests in such interdisciplinary areas as land surface-atmospheric interactions, terrestrial ecology, biogeochemistry, remote sensing, mesoscale meteorology, and global change. Candidates should have a Ph.D. in atmospheric sciences or related field with postdoctoral experience in ecosystem modeling and/or remote sensing. Applicants should have a strong record of research accomplishments and a commitment to teaching and research. Candidates will be expected to contribute to the teaching of environmental science at both the undergraduate and graduate level. The University of Virginia is an Equal Opportunity/Affirmative Action Employer.

SCIENCE • VOL. 266 • 18 NOVEMBER 1994
Positions Open

Carcass College: Assistant Professor of Chemistry
Assistant Professor of Biology

Growing enrollments in the sciences provide opportunities for new Faculty Appointments at Carthage. Both positions are tenure-track and require the Ph.D.

Chemistry: The department, accredited by the ACS, seeks an energetic individual who has a keen interest in undergraduate teaching, including research. The College offers technologically advanced instrumentation and a progressive curriculum that includes interdisciplinary general education. Reply by January 15, 1995.

Genetics/Botany: Seek candidate with a strong background in experimental biology. The individual must have a commitment to guiding undergraduate research projects. Experience in teaching and research in western coniferous forests is required. Reply by February 1, 1995.

The College offers an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

CARRIAGE COLLEGE
Assistant Professor of Chemistry
Assistant Professor of Biology

Positions Open

Gennett, G. Professor of Zoology, Miami University, Oxford, Ohio

The Department of Zoology: ASSISTANT PROFESSOR position (tenure-track) to begin in August 1995. Ph.D. in genetics, zoology, or biology, required. We seek an individual to develop an independent research program in one of the following areas: evolution, development, or biocomputational biology. Experience in complementing this position within the department. Teaching responsibilities include: (1) general zoology, (2) an advanced undergraduate course in evolution/biosystematics, and (3) participation in a teaching-oriented biology course every other year. The successful applicant should expect to seek external funding to support his/her research and to supervise graduate and undergraduate research projects. Advancement will be based on teaching, research, and professional service, with primary emphasis on teaching and research. We have excellent research facilities, strong Ph.D. and M.S. programs, 32 faculty members, several postdoctoral positions, and 54 graduate students. Interest persons should submit a curriculum vitae, statement of teaching, philosophies, a description of current research and long-term research interests, and should arrange for three letters of recommendation and transcripts of all academic work to be sent to: Dr. Douglas H. Taylor, Chair of Zoology, Miami University, Oxford, OH 45056. Review of the application will begin by January 15, 1995.

The University of Miami offers Equal Opportunity/Affirmative Action to all qualified applicants. Women and minorities are encouraged to apply.

TERRITORIAL ANIMAL ECOLOGIST

The Department of Biological Sciences, University of Wisconsin-Milwaukee (UWM), invites applications for a tenure track position in terrestrial animal ecology in the ASSISTANT PROFESSOR level. We seek applicants with broad training and experience involved in population, community, and/or conservation ecology. Candidates are expected to develop active research programs and to supervise Ph.D. and M.S. research. The Department has an active research faculty in ecology, and the UWM Field Station affords unique facilities for research and instruction. We are seeking an energetic individual to develop an active general ecology course, some participation in the general biology curriculum, and an advanced course in ecology or area of organismal specialty.

Applications should be sent to: Dr. Millicent S. Ficken, Chairperson, Ecologist Search Committee, Department of Biological Sciences, University of Wisconsin-Milwaukee, P.O. Box 413, Milwaukee, WI 53201. Deadline for applications is January 15, 1995. The University of Wisconsin-Milwaukee is an Equal Opportunity/Affirmative Action Employer. Women and minority scientists are encouraged to apply for this position. The names of nominees and applicants who have not requested that their identities be withheld and the names of finalists will be released upon request.

ASSISTANT/ASSOCIATE PROFESSOR ANATOMY

Applicants are invited for a tenure-track position in the Department of Anatomy at the University of Osteopathic Medicine and Health Sciences. Teaching responsibilities will be in Human Gross Anatomy/Neuromotorics with some histology. Applicants should have a Ph.D. in human anatomy with an interest in innovative teaching methods. Postdoctoral experience will be helpful. Interested persons should submit curriculum vitae and names and addresses of three references to: Craig F. Canby, Ph.D., Chair, Anatomy Search Committee, Department of Anatomy, UOMHS, 3200 Grand, Des Moines, IA 50312.

The University is an Equal Employment Opportunity Employer.

DEPARTMENT OF MICROBIOLOGY and the CANCER CENTER MEDICAL COLLEGE OF WISCONSIN

The Department of Microbiology and the Cancer Center seek candidates for a tenure-track assistant or associate professorship. Investigators employing molecular, cellular, and biochemical approaches to the study of gene expression, growth factors and cytokines, apoptotic mechanisms, receptors and signaling, oncogenes, bacterial pathogenesis, or tumor immunobiology are urged to apply. Candidates must have an earned doctorate, at least two years of postdoctoral experience, a strong research program, and a demonstrated commitment to developing an independently funded research program, and willingness to participate in graduate and undergraduate teaching. Modern laboratory facilities, competitive salary and start-up funds are available. Send curriculum vitae, statement of research interests and plans, three relevant reprints, and the names of three referees to: Dr. Samuel H. Korn, Search Committee, Department of Microbiology, Medical College of Wisconsin, 8701 Watertown Plank Road, Milwaukee, WI 53226. Medical College of Wisconsin is an Affirmative Action/Equal Opportunity Employer/Men only, Female, Disabled, Veterans.

MICROBIAL GENETICIST—ASSISTANT PROFESSOR

The Department of Microbiology, Genetics and Molecular Biology, and the Department of Chemistry and Biochemistry, seek candidates for a tenure-track assistant professor position in microbial genetics. The successful applicant will be expected to develop an active research program, to teach undergraduate courses in genetics and molecular biology, and to contribute to the graduate program in Microbiology. Applicants should have a Ph.D. in genetics, molecular biology, or a closely related field and a publication record commensurate with potential for a tenure-track position. Applicants should send curriculum vitae, a statement of research and teaching interests, a list of significant publications, and three letters of recommendation to: Dr. Philip L. Inigo, Search Committee, Department of Biochemistry, Medical College of Wisconsin, 8701 Watertown Plank Road, Milwaukee, WI 53226. The University of Wisconsin-Milwaukee is an Equal Opportunity/Employer.

ELECTROPHYSIOLOGIST

The Section of Neurosurgery, Yale University School of Medicine, has an ASSISTANT PROFESSOR position available for the individual with a strong background in the cellular basis of epilepsy. Candidates must have Ph.D. or M.D. degree and at least two years of postdoctoral experience using in vivo/slice preparation. Successful candidate expected to seek independent funding and to interact with a group of neuroscientists studying epileptogenesis and mechanisms. Interested persons should send curriculum vitae and three references by December 15, 1994. Women and minority scientists are encouraged to apply.

The University of Virginia is an Affirmative Action/Equal Opportunity Employer. Applications from women and underrepresented minorities are encouraged.

Positions Open

Smith College: Department of Biological Sciences
Developmental Biologist

The Smith College Department of Biological Sciences invites applications for a full-time, tenure-track ASSISTANT PROFESSOR in Developmental Biology for an appointment beginning August 1995. We seek a biologist with expertise in plant and animal development/embryology to participate in Introductory or Cell Biology, in courses teaching the biology of development, and in developmental biology in Developmental Biology. An advanced level course in the applicant’s specialty will be encouraged. Candidates should have strong teaching and/or research experience. Smith College is a leading women’s college with an enrollment of approximately 1,600 women in its undergraduate programs in the arts, sciences, and social sciences, and located in Northampton, Mass., with Amherst, Mount Holyoke and Hampshire Colleges and the University of Massachusetts. A curriculum vitae, statement of teaching philosophy and research interests and experience, and three letters of recommendation should be sent to: Professor E. Tyrrell, Chair, Department of Biological Sciences, Clark Science Center, Smith College, Northampton, MA 01063. Applications should be received by December 31, 1994. An Affirmative Action/Equal Opportunity Institution. MINORITIES AND WOMEN ARE ENCOURAGED TO APPLY.

UNIVERSITY OF VIRGINIA
Facility Positions in Psychology

Applications are invited for two tenure-track positions in the Department of Pharmacology to be filled at the rank of ASSISTANT PROFESSOR or higher. The Department is seeking applicants with significant postdoctoral research experience and interest in cell signalling using contemporary approaches, including molecular structure, genetic analysis of function in model organisms or differentiated cells, control of transcription, and the organization and function of the cardiovascular, nervous, or immune systems. Successful candidates will be expected to develop or maintain funded research programs and to participate in graduate and medical student teaching. The University of Virginia provides a highly interactive scientific community well supported by core facilities, research centers and training programs. Highly competitive salary and start-up packages are available for these positions.

Applications, a statement of research accomplishments and plans, and three letters of recommendation should be directed to: Dr. Carl E. Creutz, Chair, Faculty Search Committee, Department of Pharmacology, University of Virginia, Charlottesville, VA 22908. The University of Virginia is an Equal Opportunity/Affirmative Action Employer. Applications from women and underrepresented minorities are encouraged.

ASSISTANT PROFESSOR MOLECULAR BIOLOGY

A TENURE-TRACK POSITION beginning August 1995. The successful applicant will be broadly trained in molecular biology, have a commitment to undergraduate teaching, and a strong research program involving undergraduate students in a productive research program. Primary responsibilities include teaching courses in molecular biology, advising students, and serving in departmental and university committees. Ph.D. in molecular biology with postdoctoral experience, a list of all molecular techniques, three publications, and two to three letters of recommendation are required. Applications should be received by December 1, 1994. Women and minorities are encouraged to apply.

The University of Virginia is an Equal Opportunity/Affirmative Action Employer.
Glaxo Inc., one of the largest pharmaceutical companies in the world, has an established record of developing the highest quality prescription medicines for unmet patient needs. Located in Research Triangle Park, N.C., the Glaxo Inc. Research Institute is a premier facility which provides a stimulating environment for scientists working in all aspects of discovery and development. We invite you to join us today in the following opening.

RESEARCH SCIENTIST Molecular Science

As a key member of our Structural Area within the Department of Molecular Science, the selected individual will work closely with the macromolecular X-ray crystallography group on protein engineering, protein isolation, crystallization, and structure determination of therapeutically important proteins. This individual will take an independent approach to research and have a keen desire to learn new techniques in molecular biology, protein chemistry, and structural work.

This position requires a B.S. degree with a minimum of 5 years relevant experience. Skills in one or more of the following areas are encouraged: sub-cloning, site-directed mutagenesis, protein purification, and protein characterization. Excellent written and verbal communication skills are required, as is the ability to interact well with groups in obtaining goals.

Glaxo offers an attractive compensation and benefits package that features a matching savings plan, an on-site fitness center and much more. Research Triangle Park, N.C. offers an academically enriched quality of life complete with a host of cultural and recreational advantages. For confidential consideration, send your resume which must include position title and salary history, to: Human Resources Department, Job ASC912005. Glaxo Inc., P.O. Box 13398, Research Triangle Park, NC 27709. (No Phone Calls or Agency Referrals, Please.) An Equal Opportunity Employer M/F/D/V.

National Institute of Environmental Health Sciences
National Institutes of Health • Public Health Service
Department of Health and Human Services

DIRECTOR
DIVISION INTRAMURAL RESEARCH (DIR)

The National Institute of Environmental Health Sciences (NIEHS) invites nominations and applications for the position of Director, Division Intramural Research (DIR). The incumbent of this position will direct laboratory and clinical research through eighteen laboratories and branches with 500 employees and approximately 100 non-civilian personnel, and an annual budget of approximately 100 million dollars. The Director, DIR, will serve as principal advisor to the Institute Director on scientific affairs involving all Institute direct research programs; develops and recommends policies for the execution of research programs; determines effectiveness of current programs and recommends; and develops new and revised programs to meet national environmental health needs.

This is a Civil Service position in the Senior Executive Service. The salary range is ES-1 to ES-5, currently $95,771 to $115,255 (includes a locality pay of 3.09%) per annum. The person selected may be eligible for Physician's Comparability pay up to $20,000 per year. A recruitment bonus of up to 25% of base pay may be available to a non-federal selectee for this position, subject to individual approval. A relocation bonus of up to 25% of base pay may be available to a permanent Federal employee who must relocate to accept this position, subject to individual approval. (Alternatively, applicants may be eligible for appointment in the Commissioned Corps of the U.S. Public Health Service.) The SES individual selected, if not presently in the Senior Executive Service, must serve a one year probationary period.

Applicants must meet the minimum educational requirements (or possess equivalent combination of experience and training) for Medical Officer, GS-602; other biomedical sciences (GS-400 group, GS-1300 group); as defined by the U.S. Office of Personnel Management Handbook X-118 Qualification Standards for Positions Under the General Schedule, which is available in Federal Personnel Offices and Federal Job Information Centers. Further information about the position may be obtained by calling 919-541-3317. An Application for Federal Employment (SF-171), accompanied by a current curriculum vitae and bibliography and Executive Qualification narrative should be submitted to:

Mr. Bruce Wiggins (HNV91)
NIEHS Personnel Office
P.O. Box 12233
Research Triangle Park, NC 27709

Application must be received by January 18, 1995.

Selection for this position will be based solely on merit, with no discrimination for non-merit reasons such as race, color, religion, sex, sexual orientation, national origin, politics, marital status, physical or mental handicap, age, or membership or non-membership in an employee organization.

NIH is an Equal Opportunity Employer
ASSISTANT PROFESSOR - DEPARTMENT OF MOLECULAR BIOPHYSICS AND BIOCHEMISTRY - YALE UNIVERSITY

The Department of Molecular Biophysics and Biochemistry seeks applicants for a position at the level of ASSISTANT PROFESSOR in the general area of physical biophysics. The successful candidate will hold a Ph.D. or its equivalent in molecular biophysics, physics, chemistry, or related field. A Ph.D. degree is required. Experience in teaching undergraduate and graduate students and in publishing research is desirable. The successful candidate will be expected to develop an independent research program and to participate in departmental activities. Applications are invited from all qualified individuals. Women and minority members are encouraged to apply. A brief statement of research interests and the names and addresses of three references should be sent to: Chair, Search Committee, Department of Molecular Biophysics and Biochemistry, Yale University, P.O. Box 208114, New Haven, CT 06520-8114 USA

Yale University is an Equal Opportunity/Affirmative Action Employer and invites applications from all qualified individuals.

ASSISTANT PROFESSOR - MICROBIOLOGY

The University of Kansas is seeking outstanding candidates for an ASSISTANT PROFESSOR tenure-track position in the Department of Microbiology beginning fall 1994. The position is supported in part by recently established Franklin D. Murphy Scholars in Molecular Biology Endowment. Candidates with postdoctoral experience, whose research interests encompass molecular biology and who have demonstrated effectiveness in teaching undergraduate and graduate students. Murphy Scholars are provided start-up funds, an annual salary supplement of $20,000, and discretionary funds. Applicants please submit a curriculum vitae, a brief statement of research accomplishments, a brief description of future research plans, and the names and addresses of three references to: Dr. Clarence S. Buller, Department of Microbiology, University of Kansas, Lawrence, KS 66045. First consideration will be given to completed applications received by January 31, 1995, and review will continue until the position is filled.

ASSISTANT PROFESSOR OF BIOLOGICAL SCIENCES - DUKE UNIVERSITY MEDICAL CENTER

Applications are invited for a tenure-track position in the Department of Genetics at Duke University Medical Center. Although we anticipate filling this position as an ASSISTANT PROFESSOR, applications at all levels, from doctoral student to full professor, are also encouraged. The full-time, tenure-track position begins in the fall of 1995. A Ph.D. and postdoctoral experience are required. We are particularly interested in individuals who are engaged in computational approaches to problems in genetics. The position is available immediately. A brief description of future research plans and the names and addresses of three references should be sent to: Chair, Search Committee, Department of Genetics, Duke University Medical Center, Box 3054, Durham, NC 27710. Duke University is an Equal Opportunity/Affirmative Action Employer.

ENVIRONMENTAL BIOLoGIST

The University of South Carolina seeks a qualified individual with expertise in ecological restoration to fill a tenure-track, non-tenure-track position in the Department of Biological Sciences. The successful candidate will be expected to design and conduct ecological research, and to develop and teach courses in ecological restoration. The candidate should have an excellent publication record in ecological restoration and the ability to develop and teach undergraduate courses in that area. A Ph.D. degree is required. Review of applications will begin on December 15, 1994. Applications receive no later than December 15, 1994, to:

Thomas A. Steiss, Search Chair
Department of Molecular Biophysics and Biochemistry
Yale University
P.O. Box 208114
New Haven, CT 06520-8114 USA

Yale University is an Equal Opportunity/Affirmative Action Employer and invites applications from all qualified individuals.

PHARMACOLOGY

Research Assistant Professor, PhD level. Research in the area of pharmacology involving PAH metabolism. Experience in the area of chemical carcinogenesis, DNA adduct formation, [32P]-post-labeling, assessment of oxidative damage to DNA, and free radical damage is required. Experience in molecular and spectrophotometric methods including NMR, EPR and MS desirable. Experience in pharmacology, toxicology or medicinal chemistry preferred. Ph.D. in molecular biology or related field is required. Experience in the area of chemical carcinogenesis is required. The successful candidate will be expected to develop an independent research program in the area of chemical carcinogenesis, with an emphasis on PAH metabolism. A Ph.D. degree is required. Send curriculum vitae, a statement of research interests, and the names and addresses of three references to: Dr. Tracy M. Penning, Department of Pharmacology, University of South Carolina School of Medicine, 1155 Main Street, Columbia, SC 29208-0216. Equal Opportunity/Affirmative Action Employer.

CONSERVATION BIOLOGIST

POSITION OPEN

The Conservation Biology Program at the University of Medicine, South Carolina is seeking a full-time, tenure-track faculty member at the level of ASSISTANT or ASSOCIATE PROFESSOR, beginning fall 1995. Applicants must demonstrate a strong commitment to research and teaching, and a desire to work with students and faculty from diverse backgrounds. The successful candidate will be expected to develop an independent research program in conservation biology, and to teach courses in wildlife management, conservation biology, and related topics. A Ph.D. degree is required. Send curriculum vitae, a statement of research interests, and the names and addresses of three references to: Dr. John A. Beier, Search Committee, Department of Wildlife Resources, University of South Carolina, Columbia, SC 29208. Equal Opportunity/Affirmative Action Employer.

POSITION OPEN

ASSOCIATE or FULL PROFESSOR (two positions) (search reopened). The new Center for Pharmaceutical Biotechnology invites applications at the level of ASSOCIATE or FULL PROFESSOR. Experience in teaching and research in biotechnology and related science disciplines is expected. The successful candidate will be expected to establish an active, externally funded research program, and to participate in teaching and advising graduate students. Applications are invited from qualified candidates with a Ph.D. or equivalent degree. Review of applications will begin on December 15, 1994, and continue until positions are filled. Applications should include a curriculum vitae, statement of research interests, and the names and addresses of three references to: Dr. W. H. Alt, Search Committee, Department of Pharmaceutical Sciences, University of South Carolina, Columbia, SC 29208. Equal Opportunity/Affirmative Action Employer.
PathoGenesis Corporation is dedicated to the discovery, diagnosis, and treatment of infectious agents associated with chronic disease. We are currently seeking the following professional:

**Ph.D. VIROLOGIST**

Characterization of newly discovered viruses. Candidate must have a Ph.D. and a minimum of 5 years experience in virology, including mammalian cell culture, in vitro virus propagation, quantitative evaluation of antiviral compounds, and molecular biology. Experience with DNA viruses required.

PathoGenesis is located in Seattle and offers a competitive salary plus a benefits program that includes insurance and stock options. Send, fax or e-mail your resume to:

PathoGenesis Corporation
201 Elliott Ave. West, Suite 150
Seattle, WA 98119
Fax: (206) 270-3330
E-mail: jduggan@bart.path.com

Equal Opportunity Employer

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**Fellowship Programs**

**United States-Israel**

BARD. The United States-Israel Agricultural R & D Fund, announces two Fellowship Programs promoting cooperative agricultural research.

The **POSTDOCTORAL FELLOWSHIP PROGRAMS** provide support for candidates who are citizens of either the United States of Israel and who have fulfilled the requirements for the Ph.D. degree within the last three years. American candidates must carry out their fellowship research in Israel and Israeli candidates must carry out their fellowship research in the United States. The initial award is for one year and under certain conditions, a one-year extension will be considered. The award for the first year is $27,000 for living and travel expenses and it is paid directly to the fellow. An allowance not exceeding $3,000 may also be paid to the host institution for operating expenses incurred in the research.

The **RESEARCH FELLOWSHIP PROGRAM** is intended to support citizens of the United States who are established research scientists in American non-profit research institutions, universities or federal and state agencies during a period of 4 to 12 months in Israel. The grant is $3,000 per month and will be paid in coordination with the base institution of the fellow. One round trip air ticket will be provided.

Applications for either program must reach BARD’s offices by January 15.

For information on application procedures please contact BARD’s offices at:

**BARD**

USDA-ARS-OIRP
Room 102, Bldg. 005, BARC-West
Beltsville, MD 20705
U.S.A.
Tel: 301-504-5505
Fax: 301-504-5298

**BARD**

The Volcani Center
F.O.B. 6
Bet Dagan
Israel 50250
Tel: 972-3-9655123
Fax: 972-3-9652506

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**Research Scientist III/Research Scientist IV**

The Research Scientist III will assist in the development, characterization and utilization of therapeutic targets for the screening of agents that will retard the Alzheimer's disease pathology. The major responsibilities will include the development of immunological and oligonucleotide probes to investigate the synthesis and processing of the amyloid precursor protein (APP) to the beta/A4-peptide. This position will also aid in the development of a program to screen for inhibitors of the beta/A4-peptide aggregation process and for inhibitors of the neurotoxic effects of this peptide. Candidates must have a B.S. degree or four-year college curriculum with a major concentration in Biochemistry, Immunology or Molecular Biology PLUS 5 years of experience in Biochemistry, Immunology and Molecular Biology OR a Master's degree in Biochemistry, Immunology or Molecular Biology PLUS 5 years of experience in Biochemistry, Immunology and Molecular Biology OR a Ph.D. in Biochemistry, Immunology and Molecular Biology. Other factors to be considered include a working knowledge and expertise in cell biology, protein/peptide chemistry and biophysical methods and experience with diverse methodologies from various disciplines to examine neurobiological problems at the molecular level as well as in vivo. Experience in enzymology and enzyme kinetics helpful.

The Research Scientist IV will develop, characterize, and utilize therapeutic targets for the screening of agents that will retard the Alzheimer's disease pathology. The major responsibilities will include the participating in the development of a research program to search for novel therapies to inhibit the synthesis and processing of the amyloid precursor protein (beta-APP) to the beta/A4-peptide as well as to inhibit the beta/A4-peptide aggregation and neurotoxicity. Candidates must have a B.S. degree or four-year college curriculum with a major concentration in Biochemistry, Immunology or Molecular Biology PLUS 5 years of experience in Biochemistry, Immunology and Molecular Biology OR a Master's degree in Biochemistry, Immunology or Molecular Biology PLUS 5 years of Postdoctoral experience in Biochemistry, Immunology and Molecular Biology. Other factors to be considered include a working knowledge and expertise in cell biology, protein/peptide chemistry and biophysical methods and experience with diverse methodologies from various disciplines to examine neurobiological problems at the molecular level as well as in vivo. Experience in enzymology and enzyme kinetics helpful.

We offer a competitive salary and comprehensive benefits. And our outstanding Research Triangle Park location is one of the most desirable areas of the country in which to work and live. To apply, please send your resume, indicating REG #65095-29 in your cover letter, by Tuesday, December 13, 1994, to: Wellcome Information Service, 3030 Cornwallis Road, Research Triangle Park, NC 27709.

For information on other job opportunities with Wellcome Co., call our Job Information Line at (919) 315-8347 in Research Triangle Park; or (919) 707-2997 in Greenville.
FACULTY POSITION
DEPARTMENT OF MOLECULAR AND CELLULAR BIOLOGY
UNIVERSITY OF ARIZONA

As part of a continuing expansion, the Department of Molecular and Cellular Biology is seeking a new tenure-track faculty member at the ASSISTANT PROFESSOR level for Fall 1995. Applicants with research interests in the molecular, cellular, or developmental biology of any organism including plants, animals, fungi, or bacteria will be considered. Successful candidates will be expected to establish a competitive research program and to teach at both the undergraduate and graduate levels.

Send curriculum vitae, a one to two page statement of research experiences and interests, and at least three suitable letters sent to: Professor Samuel Ward, Head, Department of Molecular and Cellular Biology, Life Sciences South Building, room 444, University of Arizona, Tucson, AZ 85721 USA. To ensure consideration, applications should be received by December 16, 1994, although applications will be accepted until the position is filled. The University of Arizona is an Equal Employment Opportunity/Affirmative Action/ADA Compliance Employer. Women and minorities are encouraged to apply.

BEHAVIORAL NEUROSCIENTIST

ADJUNCT ASSISTANT PROFESSOR OR POST-DOCU- TATIONAL RESEARCH ASSOCIATE (non-tenure-track), one to four year appointment is available immediately. This appointment begins no later than August 1995 and requires a Ph.D in Behavioral Neurosciences or related field and one year post-doctoral experience. The successful candidate will work in a research program utilizing neuroanatomical, neuroendocrine, and neurochemical approaches to combat drug addiction. Experience with aggressive study design, data analysis and initiating or conducting independent projects is essential. Send curriculum vitae, statement of research interests, publications and contact information for letters of reference to: Dr. John Thompson, University of Rhode Island, Kingston, RI 02881.

VERTEBRATE ZOOLOGIST/EVOLUTIONARY BIOL- OGIST—Tenure-track, ASSISTANT PROFESSOR position available fall 1995 pending funding. To teach vertebrate zoology, evolution, and to develop other upper-level courses in specialization. Successful applicant will be expected to teach introductory courses for majors or non-majors, and to develop a research program involving undergraduate and Master's level students. Ph.D. in zoology or related field by later than August 1995 in biological field required. Credentials and experience compar- able to the above will also be considered. Send letter of application and vitae with emphasis on teaching goals and of research interests; names, addresses, and telephone numbers of three references to: Dr. Rhett E. Rollins, Search Committee Chairperson, Department of Biological Sciences, Central Connecticut State University, New Britain, CT 06050-4010. Review of candidates will begin on December 9, 1994. Central Connecticut State University is an equal opportunity/affirmative action employer.

WHEATON COLLEGE
Wheaton, Illinois

Department of Biology seeking application for CHAIR OF BOTANIC BIOLOGY—Adjunct, ASSISTANT, ASSOCIATE OR PROFESSOR level. Experience in management of academic program or similar experience necessary. Teaching experience is also preferred. Ph.D. in botany, physiology, plant taxonomy, ultraduction, and introductory biology courses. Possible teaching at Science Station in South America. Contact: Dr. Rodney Scott, Chair of Biology, Wheaton College, Wheaton, IL 60187. Closing date January 20, 1995.

Wheaton College is an evangelical Christian liberal arts college whose faculty subscribe to a Statement of Faith and adhere to lifestyle expectations. The College complies with federal and state guidelines for nondiscrimination in employment. Women and minority applicants are encouraged to apply.

PHD SPECIFIC POSITIONS

ASSISTANT PROFESSOR
BIOLOGICAL ANTHROPOLOGY
UNIVERSITY OF CALIFORNIA, DAVIS

The Department of Anthropology seeks applicants for a tenure-track position as ASSISTANT PROFESSOR, starting July 1, 1995. Applicants should have primary research accomplishment in the special area of behavioral ecology of human primates, supported with interests and background in one or more other areas of biological anthropology. Teaching duties will include advanced and graduate courses with an emphasis on at least one other area of biological anthropology as well as an introductory course in the evolution of human behavior. Strong preference is given to applicants whose research is carried out in the field and who have completed the Ph.D. or clearly will complete it by July 1, 1995. To apply, please submit a letter of application describing specific research interests and supporting areas of interest in depth, a curriculum vitae, and the names and addresses of three referees to: Peter S. Rodman, Chair, Department of Anthropology, University of California, Davis, CA 95616. Deadline for receipt of applications is January 15, 1995. UC Davis is an Equal Opportunity/Affirmative Action Employer. Women and veterans and those with disabilities are urged to apply and are invited to identify themselves as such.

NEUROSCIENTIST

The Department of Anatomical Sciences and Neurobiol- ogy is seeking to fill tenure-track positions at the level of ASSOCIATE or ASSOCIATE PROFESSOR. The preferred candidates will have a Ph.D. or M.D. or Ph.D., an independent research program in neurosciences and teaching experience in gross anatomy or histology. Participation in the graduate student mentoring program is expected. The Department has a 25 faculty, the majority of whom have a research interest in the neurosciences. This is an interactive group of investigators with research pro- grams that encompass developmental, molecular, cellular neurophysiology, neurochemistry and systems neurosci- ence. Opportunity for joint appointments with clinical departments in Medicine, Neurology, Neurosurgery, and partes of other departments. Salary will be commensurate with experience, and awards for start-up costs are available. Applications should be submitted to: Chair of the Search Committee, Department of Anatomical Sciences and Neurobiology, University of Louisville School of Medicine, Louisville, KY 40292. The University of Louisville is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

PRUDUE UNIVERSITY
Wildlife Extension Specialist and Summer Practicum Director

Two-year, 12-month visiting ASSISTANT PROFE- SOSOR position in wildlife ecology. Extension responsibil- ity will be as part of the ISU Department of Forestry and Natural Resources. Applicants must have a Ph.D. in wildlife or related field, and experience teaching, research and extension. Experience teaching undergraduate and graduate level wildlife courses is essential. Submit a letter of application, resume, concise statement of educational and administrative phi- losophy, and names, addresses, and telephone numbers of three references to: Chair of the Search Committee, Department of Natural Resources, Purdue University, 1159 Forestry Building, West Lafayette, IN 47907-1195. Review of applications will begin January 31, 1995. Purdue University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

FACULTY POSITION
Tenure-track faculty position is available to conduct research on multicellular systems and cell survival in multidisciplinary areas such as epidermal biology, cell biology, histological biology, and pathology. The successful candidate will be expected to establish a competitive research program and to teach at both the undergraduate and graduate levels. Applicants should have a Ph.D. in biology or related field. The position will be at an assistant professor level and will have a competitive postdoctoral experience. The successful candidate will be expected to design and conduct an independent research program and to establish a competitive research program. Send curriculum vitae, statement of research interests, and three letters of reference to: Prof. K. A. T. Miller, Chair, Department of Biology, University of Tulsa, Tulsa, OK 74104. The University of Tulsa is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

WILDLIFE SCIENCE AND MANAGEMENT
ASSOCIATE PROFESSOR
UNIVERSITY OF ALABAMA

The Department of Wildlife Science and Management at the University of Alabama is currently seeking a tenure-track, assistant professor at the associate professor level. The successful candidate will be expected to have an independent research program and teach at both the undergraduate and graduate levels. Applicants must have a Ph.D. in wildlife biology or a related field and at least three years of postdoctoral experience. Applicants should have a strong commitment to teaching and research and be able to design and conduct an independent research program. Send curriculum vitae, a statement of research interests, and names of three references to: Chair, Search Committee, Department of Wildlife Science and Management, University of Alabama, Tuscaloosa, AL 35487. The University of Alabama is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

BIOLOGY CHAIR

The University of Central Arkansas invites applications and nominations for the position of CHAIR of the Department of Biology. The member department has a record of excellence in instruction in biology at the under- graduate and graduate levels. Applicants should have demonstrated leadership and administrative experience in the area of biology. The successful candidate will have demonstrated research and teaching excellence and provide an effective interface with the community. Contact person is Dr. Dennis Whitson, Chair, Search Committee, 204 Sutton Hall, UAP, Indiana, IN 45705-1098. Internet: Whitson@growth.uap.edu. UAP is an Affirmative Action/Equal Opportunity Employer.

DEAN: COLLEGE OF NATURAL SCIENCES AND MATHEMATICS

Applications and nominations are invited for the position of DEAN of the College of Natural Sciences and Mathematics, Indiana University of Pennsylvania (IUP). Candidates should have an earned doctorate in a discipline offered by the College (Biology, Chemistry, Computer Science, Geoscience, Mathematics, Physics, and Psychology); proven leadership ability; administrative ex- perience in teaching and research; and professional activity; and proven ability to work effectively with the community. Contact person is Dr. Dennis Whitson, Chair, Search Committee, 204 Sutton Hall, UAP, Indiana, IN 45705-1098. Internet: Whitson@growth.uap.edu. IUP is an Affirmative Action/Equal Opportunity Employer.

CHIEF OF GERONTOLOGY

The Portland, Ore- gon, Department of Veterans Affairs Medical Center, a Dean's hospital and closely affiliated with Oregon Health Sciences University, is seeking an experienced academic leader to serve as Chief of Gerontology. Candidates should be experienced academic physicians with an excellent record of research, clinical and teaching skills and administrative accomplishments.

The appointment will be at the level of associate pro- fessor or professor based on the candidate's qualifications. The position is in the Division of Radiology, The Johns Hopkins School of Medicine, 720 Rutland Avenue, Baltimore, MD 21205. The Johns Hopkins is an Equal Opportunity/Affirmative Action Employer.
The Laboratory of Biological Chemistry located at the Gerontology Research Center in Baltimore, Maryland is seeking a postdoctoral fellow (Ph.D. or M.D.) interested in studying the regulation of chondrocyte gene expression using model systems related to chondrogenesis and cartilage repair. The project will focus on the characterization of chondrocyte nuclear factors that interact with previously identified regulatory sequences in the collagen II gene. The candidate should have training in cellular and molecular biology and have an interest in degenerative diseases of aging. Starting salary will be commensurate with qualifications and experience. For more information contact Dr. Walter E. Horton, Jr. at (410) 558-8154. Interested candidates should submit curriculum vitae, bibliography, reprints, summary of research interests and names of three references to: National Institute on Aging, Attn: Walter E. Horton, Jr., Gerontology Research Center, 4940 Eastern Avenue, Baltimore, MD 21224.

NIH is an Equal Opportunity Employer.
**POSITIONS OPEN**

**CANCER CENTER DIRECTOR**

The University of Illinois at Chicago (UIC) College of Medicine is pleased to announce the position of **Cancer Center Director**. The position includes appointment as a tenured Professor. We are looking for an outstanding cancer physician in order to lead the program at the University of Illinois. Candidates should have broad knowledge of the current state of cancer research and the ability to communicate effectively with various constituencies. The Director should have the organizational skills and ambition to initiate and coordinate multidisciplinary basic and clinical studies. The Director should encourage interactions and collaborations among cancer researchers and clinicians at UIC, promote and coordinate recruitment of cancer researchers, establish and supervise shared facilities for the Cancer Center, and spearhead the development of new research and training programs in oncology. The Cancer Center will take advantage of the outstanding research environment at UIC, strong clinical base, diverse patient population, and the commitment of the University of developing UIC as a leading national center of excellence in cancer research. For full consideration, interested applicants should send a copy of their curriculum vitae by January 17, 1995, to:

Dr. Igor B. Roninson, Chair, Cancer Center Search Committee Department of Genetics M/C 669 University of Illinois at Chicago 808 South Wood Street Chicago, IL 60612-7309 UIC is an Equal Opportunity/Affirmative Action Employer.

**DIRECTOR**

**UNIVERSITY OF WISCONSIN COMPREHENSIVE CANCER CENTER**

The University of Wisconsin Medical School, Madison, invites applications and nominations for the position of **DIRECTOR** of the Wisconsin Comprehensive Cancer Center (UWCCC). The UWCCC comprises 145 members who work in training, cancer prevention and outreach. The Center Director reports directly to the Dean of the Medical School, and with the advice and assistance of senior and program leaders, allocates the resources of the Center to accomplish its mission of excellence in research, education, clinical care and outreach. The Director guides a complex interdepartmental, interdisciplinary organization. Resource development is an important element of successful leadership. The position develops and sustains a broad program meeting NCI criteria for excellence, with outstanding, achieving achievements in research in the basic and clinical sciences, high priority clinical trials, and cancer prevention and control; education and training, excellent information services, and community service and outreach. Candidates will have an M.D. and/or Ph.D. degree, nationally recognized experience and interest in oncology, and demonstrated administrative excellence. Academic achievements gained in clinical and/or laboratory research and education must meet standards for a senior faculty rank appointment. Tenure home will be in a department appropriate to the candidate's background. Applications from minorities and women are encouraged. Curriculum vitae and letter of interest should be sent by January 31, 1995, to: William Ershler, M.D., Chair, Cancer Center Search Committee, c/o Margie Martin, 1205 MSC, 1300 University Avenue, Madison, WI 53706. FAX: 608-263-5286. Confidentiality may be requested in writing. Finalists cannot be guaranteed confidentiality. University of Wisconsin is an Equal Opportunity/Affirmative Action Employer.

**ORGANIC CHEMIST**

Yeshiva University invites applications for a tenure-track **FACULTY POSITION** in Organic Chemistry, starting September 1995. Teaching duties include organic chemistry, advanced courses possibly including undergraduate research. Research opportunities include spectroscopy, and chemistry for non-science majors. Applicants must have a completed Ph.D. Preference will be given to candidates with evidence of undergraduate teaching and demonstrated ability and interest in conducting research with undergraduates who are interested mainly in the health sciences. Please send resume and three letters of recommendation to: Chair, Department of Chemistry, Yeshiva University College of Osteopathic Medicine, 1075 York Avenue, New York, NY 10065. An Equal Opportunity Employer.

**POSITIONS OPEN**

**EMORY UNIVERSITY**

Dean of the Graduate School of Arts and Sciences

Emory University invites applications and nominations for the position of **Dean of the Graduate School of Arts and Sciences**. Emory recently enrolled approximately 10,000 students in nine schools, taught by 1,700 full-time instructional faculty, of whom 700 are graduate faculty. The Graduate School of Arts and Sciences enrolls 1,500 students in the College of Arts and Sciences and doctoral degree in 23 departments and divisions. The Dean is responsible for providing academic leadership in all aspects of the graduate program of the Graduate School within the administration of the University.

Candidates must have a record of teaching and scholarship commensurate to the position and rank of professor. Evidence of administrative interest and aptitude is required, as is commitment to rigorous graduate education.

Candidates should submit a letter detailing their interest and pertinent experience, together with a current curriculum vitae. Applications and letters of nominations should be sent to: Dr. Robert P. Nierenberg, Chair, Graduate Dean Search Committee, Department of History, Bowden Hall, Emory University, Atlanta, GA 30322. The committee will begin reviewing dossiers December 15, 1994. Emory is an Affirmative Action/Equal Opportunity Employer.

Applications are invited for a TENURED or TENURE-TRACK position in an area of biochemistry or molecular biology. The successful candidate will be expected to be located at the Barnett Institute and a Faculty appointment in the Department of Pharmaceutical Sciences. The successful candidate will be expected to work with their institutional and departmental colleagues in building a new research base. Qualification requirements include a strong research background and strong teaching abilities. We are seeking an individual who will be able to provide the leadership and infrastructure necessary to develop a strong research base. The candidate will be expected to have strong, competitive research and teaching abilities, and to be able to conduct research in a collaboration process. In addition to teaching and research, the successful candidate will be expected to develop a strong and innovative research program that is fundable.

**POSITIONS OPEN**

**BIOLOGICAL MASS SPECTROMETRY**

NSF High-Field FT-ICR MS Facility

**POSITIONS OPEN**

At $31,000 per year are available in high-performance Fourier transform mass spectrometry. Strong candidates include electrospray and MALDI ion sources for 7 T and 9.4 T widebore superconductor magnets. Each postdoctoral is expected to contribute to the instrumentation, including ion optics; instrumental and experimental technique development; MALDI and other laser-based experiments; and the development of biomolecular lasers. Prior experience in structural biology and/or biological mass spectrometry is desirable. Submit graduate transcript, updated curriculum vitae including publications and presentation, one page on prior research accomplishments, and a short description of proposed research area(s), and have three reference letters sent to: Professor Alan G. Marshall, Director, ICR Program, National High Magnetic Field Laboratory, Florida State University, 1800 East Paul Dirac Drive, Tallahassee, Florida 32310-4005. Florida State University is an Affirmative Action/Equal Opportunity Employer.

**POSTDOCTORAL OR STAFF RESEARCHER**

**EXPERIMENTAL CHEMICAL PHYSICS**

Experimental quantum control of chemical dynamics with femtosecond lasers. Close interaction between experiments and theoretical and numerical theory. Ultrafast X-ray and electron diffraction for imaging molecular quantum dynamics. Looking for exceptionally able experimentalists, particularly with strong background from among ultrafast laser, molecular or charged particle physicists. Applicants with experience (Postdoctoral) $41,600 + (Researcher, with exceptional experience) for description of current group activities and personnel. Send curriculum vitae, description of research interests and names and telephone numbers of three references to: Dr. Santica Marcovina, University of Washington, 2121 North 35th Street, Seattle, WA 98103. The University of Washington is an Affirmative Action/Equal Opportunity Employer.

**POSTDOCTORAL POSITION** available immediately to study the application of new technologies to develop immunoassays for measuring diabetes-associated autoantibodies. The project requires the use of a variety of immunology, molecular biology, and biochemical methods with semi automated work station technologies. Candidates should possess an interest in human immunology and a creative aptitude for developing new immunoassay reagents. A Ph.D. in immunology or a closely related field with experience in monoclonal antibodies and molecular biology is strongly preferred. Send curriculum vitae, statement of research interests and names and telephone numbers of three references to: Dr. Santica Marcovina, University of Washington, 2121 North 35th Street, Seattle, WA 98103. The University of Washington is an Affirmative Action/Equal Opportunity Employer.

**POSTDOCTORAL POSITION** available immediately to study the application of new technologies to develop immunoassays for measuring diabetes-associated autoantibodies. The project requires the use of a variety of immunology, molecular biology, and biochemical methods with semi automated work station technologies. Candidates should possess an interest in human immunology and a creative aptitude for developing new immunoassay reagents. A Ph.D. in immunology or a closely related field with experience in monoclonal antibodies and molecular biology is strongly preferred. Send curriculum vitae, statement of research interests and names and telephone numbers of three references to: Dr. Santica Marcovina, University of Washington, 2121 North 35th Street, Seattle, WA 98103. The University of Washington is an Affirmative Action/Equal Opportunity Employer.
**Assistant/Associate Scientists**

Bristol-Myers Squibb in Syracuse, New York, has the following opportunities available in the Genetic Engineering and Biological Process Development Department:

**Assistant/Associate Scientists**

Participate in the development of GMP recovery/purification, processes and validation of the processes for proteins. Responsible for the design and implementation of experiments as well as the interpretation of results for the development of protein purification procedures. Also responsible for insuring process integrity by designing and implementing validation protocols and obtaining required analyses.

The qualified candidates will possess a B.S. or M.S. in Biology or Biochemistry. Experience in protein purification with demonstrated ability to work independently as well as in a group. Written and oral communication skills are necessary. Reply to Dept. SY-940196/197.

**Assistant/Associate Scientist**

Conduct laboratory procedures in compliance with established protocols and with regulatory/laboratory requirements, maintain a research notebook and perform literature searches and evaluations.

The qualified candidates will possess a B.S. or M.S. in Biology or Molecular Biology with up to 4 years experience which should include molecular biology, cDNA construction, gene isolation familiarity PCR techniques. Must be able to maintain a level of technical knowledge and understanding that keeps current with scientific literature. Reply to Dept. SY-940193.

We offer an excellent salary and comprehensive benefits. For consideration, forward your resume with salary requirements and Dept. # to: Manager Human Resources, BRISTOL-MYERS SQUIBB, P.O. Box 4755, Syracuse, NY 13221-4755. Equal Opportunity Employer, M/F/D/V.

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**Cancer Research Positions**

The Department of Pathology and Laboratory Medicine at Temple University School of Medicine is currently seeking applicants for research positions at the Assistant/Associate Professor level. The successful candidate will be in the division of Experimental Pathology. In particular, qualified candidates are sought in the areas of (1) Hormonal carcinogenesis, (2) Environmental carcinogenesis, (3) Gene targeting/immunotherapy of cancer, and (4) Resistance to cancer chemotherapy. These investigators will hold appointments in the Fels Institute for Cancer Research, will be associated with the Ph.D. program in the department and should have a track record of independent research and research funding. These positions will augment the section of molecular pharmacology in the Temple University Comprehensive Cancer Center. Interested candidates are requested to submit a C.V. and the names of three references to: Henry Simpson, M.D., Ph.D., Chairman, Department of Pathology and Laboratory Medicine, Temple University School of Medicine, 3401 N. Broad St., Philadelphia, PA 19140.

Temple University is an EOE/AA employer and strongly encourages applications from women and minorities.
**POSITIONS OPEN**

**VASCUlAR BIOLOGY UNIVERSITY OF VIRGINIA Outstanding Opportunities for Graduate Students and Postdoctoral Fellows**

The University of Virginia offers a multidisciplinary program in Pharmacology, Biophysics and Cell Biology of the Vessel Wall. Twenty-four investigators are participants in a training program with a long history of successful mentoring of both predoctoral and postdoctoral fellows. Our particular strengths are in the areas of Biophysics, Cell Signaling and Microcirculation. Laboratory investigations are undertaken in cell communication and transport, crosstalk between cardiocytes, smooth muscle and endothelial cell electrophysiology, smooth muscle cell signal transduction and lipid metabolism. Interested and competitive applicants should apply to: Dr. Brian R. Duling, Department of Molecular Physiology and Biophysics, Box 449, Health Sciences Center, University of Virginia, Charlottesville, VA 22908.

These positions are restricted to permanent residents or citizens of the United States. The U.S. Geological Survey (USGS), Water Resources Division, has a POSTDOCTORAL POSITION for a United States citizen available immediately for studies on the biodegradation of tributylate in soils, sediment, and bacterial cultures. Candidates should have a Ph.D. in microbiology, chemistry, biogeochemistry, or related field. Experience with microbial degradation or remediation of anaboresa or methanotrophs is desirable. Term appointment of one to two years that may be extended. Vacancy open July 31, 2014. Location: Menlo Park, California. Applicants should send SF-171 (application for Federal Employment), transcripts to: Center for Water and Land Resources, USGS, Menlo Park, CA 94025. The USGS is an Equal Opportunity Employer. U.S. citizenship is required.

**POSTDOCTORAL POSITION PRECLINICAL NEUROPSYCHOPHARMACOLOGY**

Mayo Clinic Jacksonville, Laboratory of Neuropsychopharmacology, has a postdoctoral position available to study the molecular biology and pharmacology of neurotransmitter receptors, especially those for the peptide neurotransmitter neuropeptide. Candidates must have a strong background in pharmacology or molecular biology. Applications including curriculum vitae, summary of research interests and experience and names of three references should be forwarded to: Elliott Richelson, M.D., Director for Research, Mayo Clinic Jacksonville, 4500 San Pablo Road, Jacksonville, FL 32224. An Equal Employment Opportunity Employer.

**POSTDOCTORAL FELLOW, MOLECULAR ENDOCRINOLOGY**—Position available in early 1995 on an NIH-funded training grant to join a group studying signal transduction pathways and transcription factors that mediate growth and hormonal regulation of the growth hormone and prolactin genes. Strong background in biochemistry required, and experience in molecular biology preferred. Send curriculum vitae, and names and telephone numbers of three references to: Dr. Carter Bancroft, Department of Physiology and Biophysics, Box 1218, Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574. An Equal Employment Opportunity Employer.

**POSTDOCTORAL ASSOCIATE** needed to conduct molecular ecology project concerning use of bacteria as indicators of degradation of stream ecosystems. Experience in aquatic ecology, molecular biology, or U.S. Gene-ology is desirable. Must be a U.S. citizen for access to study sites. Please send a curriculum vitae and names, addresses, and telephone numbers of three references to: Laura Left, Department of Biological Sciences, Box 5-CHH, Kent State University, Kent, OH 44242.

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

**SENIOR POSTDOCTORAL FELLOW/INSTRUCTOR**—Advanced postdoctoral position available in mitochondrial biochemistry and molecular biology. Opportunity to develop independent research program. Send curriculum vitae to: Eric P. Brass, M.D., Ph.D., Chairman, Department of Medicine, Harbor-UCLA Medical Center, 1000 West Carson Street, Torrance, CA 90509.

**POSITIONS OPEN**

**G PROTEIN-MEDIATED SIGNAL TRANSDUCTION—POSTDOCTORAL POSITIONS** are available to study: (1) the role of lipid modifications and other structural features in the function, location, and movement of G proteins within cells. This is a collabora-tive project between Drs. Rick W. Anderson, and Alfred G. Gilman. 2) The role of heterotrimeric G proteins in hematopoiesis and early development of the cell and transgenic mouse technology. This second position is in the laboratory of Dr. Tom Wilkie. Applicants with a recent M.D. or Ph.D. degree, and research experience in cell biology, biochemistry, or related fields. Send curriculum vitae, letter describing research experience, and names, addresses, and telephone FAX numbers of three references to: Dr. Susan S. Mumbey or Dr. Tom Wilkie, Department of Pharmacology, University of Texas Southwestern Medical Center, 5323 Harry Hines Boulevard, Dallas, TX 75235-9041. An Equal Opportunity Employer.

Two POSTDOCTORAL POSITIONS. Cell and molecular biology of viral transduction in Busselaer cell incompatibility. 1) Cell Biologist with Ca2+ imaging, electron microscopy or electrophysiology expertise. 2) Molecular Biologist with expertise in DNA/RNA and protein techniques. Send curriculum vitae and names of three references by February 1, 1995, to: Dr. D. Gor-ling, R. Lew, or B. Heath, Department Biology, York University, 4700 Keele Street, Toronto, M3J 1P3 Canada. FAX: 416-736-5089; Email: FS005431@sol.yorku.ca.

**POSTDOCTORAL POSITION** available immediately in an area of protein tyrosine kinase and integrin signal- ing. Recent Ph.D. graduate wanted to study focal adhesion kinase, its associated proteins and substrates. Experience in molecular biology, biochemistry and tissue culture is an asset. Send curriculum vitae and three letters of recommendation to: Dr. Eric S. Avraham, Department of Cell Biology and Anatomy, University of North Carolina at Chapel Hill, CB No. 7090, 108 Taylor Hall, Chapel Hill, NC 27599. An Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITION** available immediately to study the mechanism of site-specific recognition in mycobacteriophage L5 including structure-function analysis of the L5 integrase and the role of mycobac-terial host factors. Basic techniques in biochemistry and previous experience in protein-DNA interactions desir-able. Send curriculum vitae and names of three references to: Graham F. Hartfull, Ph.D., Department of Biological Sciences, University of Birmingham, Puseley Building, Birmingham, PA 15260. FAX: 412-624-4759. The University of Pitts-burgh is an Equal Opportunity/Affirmative Action Employer. Women and minorities are especially encouraged to apply.

**POSTDOCTORAL POSITION** available in the area of peptide nucleic acid technology. Send curriculum vitae and names of three references to: Dr. Robert E. Shulman, Department of Cell Biology and Molecular Medicine, University of Maryland School of Medicine, 2218 Presstman Building, Room 112, Baltimore, MD 21201. Email: robshulman@helix.nih.gov.

**POSTDOCTORAL POSITION** available immediately to study the structural biology of the Veal 1994 virus, an important retrovirus in a wide range of invertebrates. Send curriculum vitae and names of three references to: Dr. Robert S. Lunch, Department of Biological Sciences, University of Alabama, Box 870364, Tuscaloosa, AL 35487. In addition, please send curriculum vitae and three letters of recommendation to: Dr. Allen D. Balfour, Department of Infectious Diseases, Washington University School of Medicine, Box 8232, 4566 Scott Avenue, St. Louis, MO 63110-1093. Washington University School of Medicine is an Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITION** available immediately through the University of Alabama at Birmingham Cys-tic Fibrosis Research Center and Immunology Vaccine Center to investigate immune responses to viral vectors following CFTF gene therapy. Cellular immunol-ogy and molecular biology experience preferred. Submit curriculum vitae and names of three references to: Dr. David W. Pascual, Department of Microbiology, Uni-versity of Alabama at Birmingham, University Sta-tion BRRB 777, Birmingham, AL 35294 or FAX: 205-975-4466.

**POSTDOCTORAL POSITION** to study the regu-latory role of tight junctions, cytokinetic elements, sec-ond messenger systems, intracellular Ca2+ and molecu-lar processes in intestinal epithelial paracellular permeabil-ity. Permeability disorder of Crot’s disease is being stud-ied. Some experience in molecular biology is desirable. Please send curriculum vitae and three letters of reference to: Thomas Ma M.D., UCI College of Medicine-DVA Medical Center, 5901 East Seventh Street (111G), Long Beach, CA 90822. FAX: 310 494-5675.

**POSTDOCTORAL POSITION** available to partici-pate in: 1) Cloning and characterization of MDV latency associated genes, 2) Identification and cloning of cellular proteins that interact with viral latency associated molecular biology techniques required. Send curriculum vitae and names of three references to: Dr. Yasaman Shirazi, Molecular Biology, Biotechnology Program, Sals-LTeikyo University—Tampa Bay Research Institute, 10900 Roosevelt Boulevard, St. Petersburg, FL 33716.

**POSTDOCTORAL POSITION** available immediately for a period of two years ($25,000 per annum) to study the physiology of somatic embryogenesis in hori-zontal plants. Experience with analytical techniques (HPLC) or Agrobacterium mediated gene transfer is de-sirable. Please send curriculum vitae and names of three references to: Dr. P. K. Saxena or Dr. T. Senaratna, Horticultural Science, University of Guelph, Guelph, Ontario, N1G 2W1. FAX: 519-824-7677; Email: psaxena@evehort.uoguelph.ca.
Cell/Molecular Biologists

Headquartered in the San Francisco Bay Area, Tulark is a growing biotechnology company dedicated to the discovery and development of ethical drugs that regulate gene expression. We are actively seeking the following professionals to join our research team.

One scientist will assume a critical position in our Cell Biology Group with the objective of discovering agents that regulate gene expression. The other scientist will join our Molecular Biology Group with the goal of discovering novel regulatory circuits responsible for controlling gene expression. We are presently focusing on gene regulation in the context of inflammatory response, hypercholesterolemia, viral replication, immune regulation and the growth of fungal pathogens. The ideal candidate for either position will have a Ph.D. degree in Cell or Molecular Biology and several years of productive postdoctoral experience.

In addition to attractive salaries and benefits, we offer an exciting, multidisciplinary research environment, where the latest developments in the understanding of gene regulation find practical application. For consideration, please submit your curriculum vitae to: Tulark, Inc., Department LM-5, 270 East Grand Avenue, South San Francisco, CA 94080. Tulark is an Equal Opportunity Employer.

Tularik

SCIENTIST

Pharmacokinetitcs/ Drug Metabolism Scientists

PARKE-DAVIS, the Pharmaceutical Research Division of Warner-Lambert, has two immediate openings in the Pharmacokinetics/Drug Metabolism Department.

The successful candidates will be responsible for the design and conduct of clinical and preclinical pharmacokinetic and drug metabolism (PK/DM) studies, pharmacokinetic and statistical data analysis, and summarization of results. They will also be responsible for development, validation, and implementation of analytical methods for drugs and metabolites in biological fluids. These positions require a BS/MS in pharmacy, pharmacology, chemistry, biochemistry or related discipline with a minimum of 3-7 years (BS) or 2-4 years (MS) experience in pharmaceutical R&D. Good experience in HPLC method development and assay of biological samples. Understanding of pharmacokinetic principles. Good computer and written/oral communications skills.

The PARKE-DAVIS Research Division is located in Ann Arbor, Michigan adjacent to the University of Michigan campus. Our scientific staff enjoy excellent compensation and benefits, and an exceptional living environment with excellent schools, diverse social activities and cultural activities associated with a major university.

Interested, qualified applicants should send their resume, list of references, and salary requirements in confidence to: PARKE-DAVIS, Human Resources, Attn: LJB-54167-5, 2800 Plymouth Road, Ann Arbor, MI 48106. "Smoke-Free Work Environment"
POSTDOCTORAL POSITION to study the possible synergistic and antagonistic effects of bisphosphonates and bisphosphonate analogs on the control of new bone formation. The project involves the study of the enzymatic and cellular mechanisms that regulate bone turnover in various disease states. The position is available immediately and will remain open until filled. The University of Texas at Austin is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE in Chemical Biology to study the cellular and molecular mechanisms of drug resistance in cancer cells. The position is available immediately and will remain open until filled. The University of California, San Francisco is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIPS are available in various research areas at the Scripps Institution of Oceanography. The position is available immediately and will remain open until filled. The University of California, San Diego is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIPS in Cancer Research are available in the fields of cancer genetics, molecular biology, and cancer biology. The position is available immediately and will remain open until filled. The University of California, San Francisco is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIPS in Molecular Biology are available in the fields of molecular biology, biochemistry, and genetics. The position is available immediately and will remain open until filled. The University of California, San Diego is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIPS in Environmental Chemistry are available in the fields of environmental chemistry, environmental toxicology, and environmental health. The position is available immediately and will remain open until filled. The University of California, Santa Barbara is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIPS in Environmental Microbiology are available in the fields of environmental microbiology, molecular biology, and genetics. The position is available immediately and will remain open until filled. The University of California, Santa Barbara is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIPS in Environmental Toxicology are available in the fields of environmental toxicology, molecular biology, and genetics. The position is available immediately and will remain open until filled. The University of California, Santa Barbara is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIPS in Marine Biology are available in the fields of marine biology, environmental science, and biotechnology. The position is available immediately and will remain open until filled. The University of California, Santa Barbara is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIPS in Neurobiology are available in the fields of neurobiology, molecular biology, and genetics. The position is available immediately and will remain open until filled. The University of California, Santa Barbara is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIPS in Neuroscience are available in the fields of neuroscience, molecular biology, and genetics. The position is available immediately and will remain open until filled. The University of California, Santa Barbara is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIPS in Environmental Health are available in the fields of environmental health, molecular biology, and genetics. The position is available immediately and will remain open until filled. The University of California, Santa Barbara is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIPS in Environmental Policy are available in the fields of environmental policy, molecular biology, and genetics. The position is available immediately and will remain open until filled. The University of California, Santa Barbara is an Equal Opportunity/Affirmative Action Employer.

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**JPL/NASA Visiting Senior Scientist**

**MISSION FROM PLANET EARTH STUDY OFFICE**

**PUBLIC OUTREACH AND EDUCATION SPECIALIST**

The Jet Propulsion Laboratory invites applications to the Visiting Senior Scientist (VSS) Program for a position in the Mission from Planet Earth (MFPE) Study Office at NASA Headquarters. The function of this position is to support the Branch Chief in all programmatic and funding aspects of their activities. Current activities for which the MFPE Office is responsible for are aimed at developing, communicating and broadening a public dialogue and understanding of the rationale, goals, value to society and required technology development associated with NASA’s long range program of human and robotic exploration of space. The activities also include the long-range development of commercial activities associated with space.

In addition to having a PhD in a technical field or equivalent credentials in education or communications, the successful candidate must have demonstrated expertise in public outreach and education; the successful candidate will help plan and execute regional national meetings; help develop and implement educational programs with K-12 teachers in their development of new curricula. Excellent communication skills, both verbal and written, are essential.

The individual will be based at NASA Headquarters in Washington, D.C. and will report to the Chief of Mission from Planet Earth Study Office.

Tenured faculty members are preferred although qualified individuals from non-profit institutions may also be considered. This position is open for immediate filling. Normal assignments in the VSS Program do not exceed two years. Appointees must be U.S. Citizens or Permanent Residents and are expected to return to their home institution following the NASA assignment. Appointees are also expected to pursue their professional career at some level, and monthly two-day visits to their home institution are supported as are conference and other professional related travel and publication costs. For more detailed information please call Dr. Carl Pitcher at NASA Headquarters (202) 358-0291.

Please provide Curriculum Vitae, bibliography and the names of four references to:

Dr. Fred Shair 183-900
Jet Propulsion Laboratory
4800 Oak Grove Drive Pasadena,
California 91109
(818) 354-8252
An Equal Opportunity Employer

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**INTEGRATIVE BIOLOGISTS**

Arizona State University

The Department of Zoology invites applications for two tenure-track positions at the level of Assistant Professor beginning in Fall 1995 from biologists who are studying questions that integrate multiple levels of organization.

**Position 1** - An integrative biologist who uses an evolutionary or organismal perspective to study questions at the molecular to organismal level. Individuals using theoretical, comparative, or experimental approaches in fields such as cellular/developmental biology, neuroscience, morphology, physiology, and genetics are encouraged to apply.

**Position 2** - An integrative biologist who uses evolutionary or ecological perspectives to study questions integrating multiple levels of organization at the organismal level or above. Researchers using theoretical or empirical approaches are encouraged to apply.

Candidates for both positions must have demonstrated a strong commitment to teaching and basic research, and must have a Ph.D. in an appropriate area by August 1995. Applicants should forward a curriculum vitae, selected reprints, statements of teaching and research, with the latter addressing the integrative nature of their work, and arrange for three letters of reference to be sent directly to Dr. Neil F. Hadley (Position #1) or Dr. Stanley H. Faeth (Position #2), Department of Zoology, Box 871501, Arizona State University, Tempe, AZ 85287-1501. Review of applications will begin December 15 and continue until each position is filled.

Applications from two individuals for a single shared appointment will be considered.

Arizona State University is an Affirmative Action/Equal Opportunity Employer.

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**ASSISTANT PROFESSOR BIOCHEMISTRY**

The Mount Sinai School of Medicine, Department of Biochemistry invites applications for a tenure-track position at the assistant professor level. Although this is a broad search, there is special interest in the control of cell signaling, regulation of mRNA metabolism, biochemical toxicology of alcohol, cytochrome P450 function and regulation, molecular mechanisms of energy transduction, signal transduction and carcinogenesis, conformational properties of proteins, and thermodynamics of macromolecular interactions. The successful applicant will be expected to develop a strong independent research program with extramural funding and to participate fully in the teaching of medical and graduate students.

Current research interests in the department include: structure and function of insulin, insulin-like growth factors, insulin-receptor action, protein phosphorylation and signaling, Fc receptors and binding, regulation of mRNA metabolism, biochemical toxicology of alcohol, cytochrome P450 function and regulation, molecular mechanisms of energy transduction, signal transduction and carcinogenesis, conformational properties of proteins, and thermodynamics of macromolecular interactions. Start-up funds and research space are available for the 1995 academic year. Women and minorities are strongly encouraged to apply.

Applicants should send curriculum vitae, a statement of research interests, and the names of three references to: Search Committee, Department of Biochemistry, Box 1020, Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574. An Equal Opportunity Employer.

The Mount Sinai Medical Center of New York
Take Good Care of Your Career.
Professor of Biochemistry and Molecular Biology

Queensland University of Technology (QUT) is one of Australia’s largest universities operating on four Brisbane campuses with 25,000 students.

The School of Life Science at the Gardens Point campus is seeking a Professor to head the Biochemistry and Molecular Biology Division. The appointee will develop new initiatives in the teaching of biochemistry and molecular biology to undergraduate and postgraduate students. The appointee should have demonstrated research excellence in the area of biomedical science, and would be expected to contribute to the research programs within the Centre for Molecular Biotechnology.

Women are under-represented at QUT at this level; therefore suitably qualified women are encouraged to apply.

QUALIFICATIONS/SKILLS: Applicants must have a PhD in a relevant area, or equivalent accreditation or standing. Applicants should have a distinguished record of achievement in biomedical research and have contributed to the profession and/or discipline at an international level. Applicants should have a proven ability to initiate innovative teaching programs, supervise postgraduate students, contribute to the development of multidisciplinary programs, and provide leadership and management of an academic unit including staff motivation and strategic planning.

CONDITIONS: Tenurable appointment is available at the level of Professor ($AUD78,991 per annum). Conditions include subsidised superannuation, relocation assistance and professional experience leave. New professors at QUT are eligible for a $AUD25,000 grant to use on work-related projects. Smoking is not permitted in QUT buildings or vehicles.

FURTHER INFORMATION: Before submitting an application, the duty statement, selection criteria and information on the position and University should be obtained from QUT’s Human Resources Department, telephone 617 864 5988 or facsimile 617 864 5684. For further information on the position contact Professor Vicki Sara on telephone 617 864 2182 or facsimile 617 864 1534.

Applications and envelopes should quote 437/94. Applications must systematically address the selection criteria and include evidence of academic qualifications and experience, plus the names, addresses, telephone and facsimile numbers of five academic and professional referees. Applicants should include teaching evaluations as well as copies of their best three papers, highlighted on their application with an asterisk. Applications should reach the Human Resources Director, QUT, Locked Bag No 2, Red Hill Queensland 4059, Australia, by 13 January 1995.

An Equal Opportunity Employer

26th ANNUAL MEETING
AMERICAN SOCIETY FOR NEUROCHEMISTRY
SATELLITE SYMPOSIUM
Loew’s Santa Monica Beach Hotel
Santa Monica, California -- March 4-5, 1995

Neuronal and Glial Injury:
SIGNAL TRANSDUCTION AND NEUROPROTECTION
Chairmen: Nicolas G. Bazan and Claude G. Wasterlain

Keynote Speaker - Stephen F. Heinemann, The Salk Institute
Brain Ligand-Gated Receptors: Insight into the Mechanisms of Memory and Neurological Disease
Bruce R. Ransom, Yale
Mechanisms of Optic Nerve Injury
Jean de Vellis, UCLA
Cytokines and Neuroapoptosis: Role in Glial Injury
Claude G. Wasterlain, UCLA
Neurapoptosis in vitro and in vivo
Dale E. Bredesen, UCLA
Gene Induction in Apoptotic Neuronal Death

Keynote Speaker - Stuart Lipton, Harvard
HIV-Related Neuronal Injury: Potential Therapy with NMDA Open-Channel Blockers and Redox Reagents of Nitric Oxide
Nicolas G. Bazan, LSU, New Orleans
Excitable Membrane-Derived Messengers in the Regulation of Gene Expression
Ted Dawson, Johns Hopkins
Nitric Oxide: Action and Pathologic Roles in Central Nervous System

Rooms: Reserve through the ASN meeting. For Saturday night, preference will be given to satellite symposium registrants.
Posters: Selected posters will be displayed, and some may be selected for platform presentation. Please indicate on registration form whether or not you intend to submit a poster.
Questions: Call 818/895-9473 (Claude Wasterlain) or 504/568-8700, ext. 321 (Nicolas Bazan); 818/895-5801 (fax).
How to Register: Send your name, address, telephone and fax number, along with a check for $100.00 made to ASN Satellite Symposium to: Claude Wasterlain, VA Medical Center, 18111 Plummer Street, Sepulveda, CA 91343.
**Students: Receive a $25.00 discount off the registration fee—please send a letter from your advisor.

American Society for Cell Biology Meeting
Bonus Distribution!
10-14 December
San Francisco, CA

Over 5,000 scientists will attend this important meeting. Make sure these potential candidates know about your open positions by advertising in:

Science's
9 December 1994 Issue
Call Janis Crowley at 212-496-7704 or Fax 202-682-0816

Space reservations are on a first come, first served basis!
FACULTY POSITION—MOLECULAR GENETICS
THE OHIO STATE UNIVERSITY

The Department of Molecular Genetics at The Ohio State University is initiating a search for a tenure-track faculty member at the Assistant Professor level. We are particularly interested in applicants who are using molecular genetic approaches to study important topics in molecular, cell and developmental biology using experimental systems such as yeast, Caenorhabditis, zebra fish, mice, and humans. However, highly qualified applicants with other research specialties within the broader area of molecular genetics will also be considered seriously. A highly competitive recruiting package is available, which includes an attractive (hard money) salary, laboratory space in a new building, and substantial funds for equipment purchase and initial operating expenses. The Ohio State University is undertaking a major expansion in the Molecular Life Sciences which will involve the hiring of at least 30 new faculty over the next four years. The Department of Molecular Genetics will play a central role in this expansion. Women and members of minority groups are enthusiastically encouraged to apply.

The Ohio State University is the flagship institution of the state's higher education system. It is located in the state capital, Columbus, which is a growing, yet highly affordable, metropolitan area of about 1.3 million people. Columbus has been ranked by Newsweek as one of the country's best places to live and work.

Applications should include a detailed curriculum vitae, a description of research experience, a statement of the nature of the planned independent research program, and the name, address and telephone number of four scientists who have agreed to serve as references. Applications will be accepted until suitable candidates are hired. Review of applications will begin during January 1995. Information about our Department can be obtained by calling our offices at 614-292-8084.

Application materials should be sent to: Dr. Alan M. Lambowitz, Molecular Genetics Search, Department of Molecular Genetics, The Ohio State University, 484 West 12th Avenue, Columbus, Ohio 43210.

The Ohio State University is an Equal Opportunity/Affirmative Action Employer. Qualified women, minorities, Vietnam-era Veterans, disabled veterans and the disabled are encouraged to apply.

THE CHINESE UNIVERSITY OF HONG KONG

The University (founded 1963) offers comprehensive programmes up to PhD level in the Humanities, Business Administration, Education, Engineering, Medicine, Science, Social Science and Architecture. Student enrollment is 11,000 full-time equivalent in 1994-95. The University is very active in promoting research and consultancies and in liaising with industry and the business sector worldwide. English and/or Chinese are used in teaching and administration.

Applications are invited for:

Lecturer, Department of Biochemistry (Ref. 98/665/2/94)
The Department of Biochemistry is re-opening its search for faculty at the lecturership level. Candidates should have a higher degree in Biochemistry or related subjects; those possessing Ph.D. degrees in Environmental Science are particularly welcome. The appointee will be responsible for developing the Environmental Science Programme, jointly offered by the Departments of Biochemistry, Biology and Chemistry. He/She will be required primarily to help teach courses in environmental and biochemical toxicology, but will also be asked to participate in the teaching of biochemistry courses to science and medical students. The appointee is expected to initiate a strong independent research programme. The specific area of research is open but experience in environmental mutagens and toxicology will be desired advantages. The post will be tenable in August 1995.

Lecturer Department of Biology (Ref. 94/665/2/94)
Applicants should have a Ph.D. degree in Food Science/Technology or a related field with appropriate postdoctoral experience. The appointee will contribute to teaching undergraduate courses in food industry economics and management studies, food processing, food engineering, food service systems and catering studies. The Department of Biology has a scientifically diverse faculty that is active in research in various fields of biological sciences including food chemistry and food microbiology. The appointee is expected to establish an active research programme in food science/technology. The post will be tenable in August 1995.

Annual Salary and Fringe Benefits
HK$412,980 - 689,880 by 10 increments (approx. exchange rate in October 1994: US$1=HK$7.8)
Starting salary will be commensurate with qualifications and experience.

Benefits include leave with full-pay, medical and dental care, education allowances for children and housing benefit for the eligible appointee (with appointee contributing 7.5% of salary towards the provision of housing). Appointment may be made either on superannuable terms with the University and the appointee contributing 15% and 5% respectively to a superannuation scheme, or on fixed term contract which carries a contract-end gratuity (15% of basic salary) in lieu of the superannuable benefits. The University may also consider more flexible appointment terms for suitable candidates.

Application Procedure
Send full resume in duplicate and names and addresses of 3 referees, with copies of academic credentials (in duplicate) and recent publications to the Personnel Office, The Chinese University of Hong Kong, Shatin, N.T., Hong Kong (Fax: (852)603 6852) before December 31, 1994. Please quote the appropriate reference no. and mark “Recruitment” on cover.

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Seattle, Washington USA
July 2 to 6, 1995

Horizons in Toxicology:
Preparing for the 21st Century
featuring
• 5 Plenary Lectures • 21 Symposia
• 13 Workshops • 2 Debates

Pre-Registration Deadline: January 16, 1995
Abstract Receipt Deadline: January 16, 1995

For more information please contact:
ICT-VII Management Staff
The Wellington Group
4707 College Boulevard, Suite 213
Leawood, KS 66211
Telephone: (913) 345-1990
Fax: (913) 345-0893

THE CHINESE UNIVERSITY OF HONG KONG

The University (founded 1963) offers comprehensive programmes up to PhD level in the Humanities, Business Administration, Education, Engineering, Medicine, Science, Social Science and Architecture. Student enrollment is 11,000 full-time equivalent in 1994-95. The University is very active in promoting research and consultancies and in liaising with industry and the business sector worldwide. English and/or Chinese are used in teaching and administration.

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Postdoctoral Positions

Cell and Gene Therapy Program

St. Jude Children's Research Hospital, a private research institute, is engaged in a further expansion of its scientific and clinical program in cell and gene therapies. In addition to current projects in the area of Hematology/Oncology, the institution is opening programs in Metabolic Disorders, Pharmacology, Inherited Immunodeficiencies, AIDS, and Hemoglobinopathies. An expansion in fundamental studies of gene transfer and regulation is also underway. A new 4500 sq. ft. GMP facility for clinical and gene therapy protocols will open early in 1995.

As part of this initiative we are looking for postdoctoral fellows who would enjoy working in an exceptionally well equipped environment which strongly encourages collaboration between basic and clinical researchers of all disciplines. Salaries and benefits are nationally competitive.

Postdoctoral vacancies exist with the following faculty:

<table>
<thead>
<tr>
<th>Faculty Member</th>
<th>Area of Interest</th>
<th>Department</th>
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<tbody>
<tr>
<td>Mary Ellen Conley, MD</td>
<td>Inherited Immunodeficiencies</td>
<td>Immunology</td>
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<tr>
<td>Alessandra D’Azzo, PhD</td>
<td>Metabolic Storage Disorders</td>
<td>Genetics</td>
</tr>
<tr>
<td>Victor Garcia, PhD</td>
<td>AIDS and Novel Gene Transfer Systems</td>
<td>Virology &amp; Molecular Biology</td>
</tr>
<tr>
<td>Raymond Blakley, PhD</td>
<td>Selectable markers for Gene Transfer</td>
<td>Molecular Pharmacology</td>
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<tr>
<td>Malcolm Brenner, MD, PhD</td>
<td>Pediatric Malignancies</td>
<td>Hematology/Oncology</td>
</tr>
<tr>
<td>Arthur Nienhuis, MD</td>
<td>Thalassemia and Sickle Cell Anemia</td>
<td>Hematology/Oncology</td>
</tr>
<tr>
<td>Brian Sorrentino, MD</td>
<td>Drug Resistance Genes</td>
<td>Hematology/Oncology</td>
</tr>
<tr>
<td>John Cunningham, MD</td>
<td>Thalassemia and Sickle Cell Anemia</td>
<td>Hematology/Oncology</td>
</tr>
</tbody>
</table>

Applicants should send a brief statement of research interests, a resume and the names, addresses and telephone numbers of three references to: Dr. Malcolm D. Brenner, Cell and Gene Therapy Program, St. Jude Children's Research Hospital, 332 N. Lauderdale, P.O. Box 318, Memphis, TN 38105.

Equal Opportunity/Affirmative Action Employer

The Evergreen State College seeks broadly trained faculty interested in teaching in a public, liberal arts institution emphasizing interdisciplinary study and team-teaching. Faculty have neither tenure nor rank. "Continuing" (as opposed to "Visiting") positions are presumed eligible for renewal under 3- and 8-year contracts. For following positions, we invite recently trained candidates with 1 to 8 years' experience. GEOGRAPHY (Continuing). To teach in graduate and undergraduate environmental studies programs. Required: expertise in resource, cultural, physical or economic geography and in ecological/environmental issues; interest and ability to teach GIS. PHILOSOPHY (Continuing). Required: ability to teach research/quantitative methodologies and remote sensing methodologies; interest and expertise in third world environmental issues; knowledge of land use planning principles and community development strategies; experience in environmental policy practice. HUMAN BIOLOGY (Continuing). To teach cell-to-organism biology at all curricular levels. Required: ability to teach anatomy, physiology, cell and developmental biology, genetics and organic chemistry lab. MARINE ECOLOGY/BIOLOGICAL OCÉANGRAPHY (1 continuing & 1 Visiting). Required: ability to supervise, teach lab and field marine methods and relate statistics to quantitative work in environmental studies; knowledge of marine ecology, phytoplankton ecology or invertebrate zoology, and Pacific Northwest marine environment. Preferred: knowledge of role of oceans in global environmental issues; experience integrating physical, chemical and biological parameters, policy questions surrounding uses of marine resources, and interaction between science and policy. PHYSICS (Continuing). Required: ability to teach both upper division (mechanics, E&M, etc.) and first-year students in intensive (40 quarter-hour) year-long programs; experience in one or more of following: broadly-based experimental physics, physics of the environment (e.g., atmospheric, geological, hydrological), energy studies. RAINFOREST ECOLOGY (Visiting). Required: ability to teach ecology, environmental biology or geology. Preferred: field experience in Pacific N.W. INFORMATION: For application procedures, write Faculty Hiring Coordinator, TESC, Olympia, WA 98505.
RESEARCH OPPORTUNITY IN ANALYTICAL BIOCHEMISTRY

The Analytical Biochemistry Department of Pioneer Hi-Bred International, Inc. is seeking applicants for our ongoing program of crop improvement. Pioneer offers competitive salaries, excellent facilities and a highly cooperative research environment.

SENIOR RESEARCH ASSOCIATE, PROTEIN BIOCHEMISTRY
(KIT DEVELOPMENT) JOB # GROT-1

The primary responsibilities of this position will be: to develop and scale-up kits for the analysis of proteins; complete assigned technology development and problem-solving projects for immunoassays and sample preparation methods; organize projects and prepare reports.

The successful candidate will be interacting with the assay development and applications groups and is expected to design, implement and interpret experiments.

EDUCATION/EXPERIENCE: MS degree plus 4 years experience OR a BS degree plus 6 years experience in microbiology, biochemistry or molecular biology is required. Applicants should have specialized skills in areas of immunochemistry and protein kit development. Experience in conducting product research, validation and scale-up under commercial conditions is highly desirable. Good communication skills are essential, especially in the exchange of technical information. Familiarity with computers and statistical analysis is preferred.

Applications received by December 16, 1994 will be assured of consideration. However, applications will be considered until the position is filled.

Pioneer Hi-Bred International, Inc. is an Equal Opportunity employer. Please send TWO complete sets of resume/application information. Be sure to indicate in your correspondence the JOB #, along with the names, addresses and telephone numbers of three references to:

PIONEER HI-BRED INTERNATIONAL, INC.
Analytical Biochemistry Department
ATTN: Dawn M. Meyer, JOB # GROT-1
P.O. Box 1004, 7300 NW 62nd Avenue
Johnston, IA 50131-1004

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For over a century, Abbott's solid commitment to R&D has delivered breakthrough health care products and services to customers worldwide. Now, as we continue to find new answers and improve lives, you could join us in one of the following key positions in our Pharmaceutical Products Division.

PULMONARY IMMUNOPHARMACOLOGIST

You will develop animal, in vitro, and tissue culture systems to profile the effects of novel compounds on the immunological genesis of various inflammatory lung diseases.

We require a BS or an MS along with 2+ years of postgraduate training. Your experience should include animal handling, measurement of pulmonary function, in vitro immunologic assays, and tissue cultures. In addition, experience with FACS analysis and lung lavage/histology is highly desirable. Job# CW60030.

IN VIVO RESEARCH PHARMACOLOGIST

You will develop in vivo models of inflammation in collaboration with a multi-disciplinary research team. The position will also entail supervision of technical staff and analyses and presentation of results.

We require a PhD in Pharmacology or Physiology and preferably at least 2-4 years of experience in animal models of allergy and arthritis. We also require a solid background in lipid mediators and cytokines, and an understanding of allergy and arthritis immunology. In addition to scientific creativity, strong writing and presentation skills are essential. Supervisory experience is a plus. Job# RB74087.

Abbott provides an excellent salary and benefits package including profit sharing and a stock retirement plan. We are located in a suburban area, approximately 30 miles north of Chicago. For confidential consideration, please send a resume and salary history (indicating appropriate Job#) to: Alison Burke, D-583, AP6B, Abbott Laboratories, One Abbott Park Rd., Abbott Park, IL 60064. Abbott is an Affirmative Action Employer/Smoke-Free Environment.

ABBOTT LABORATORIES

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POSITIONS OPEN

BIOTECHNOLOGY RESEARCH ASSOCIATE

The Molecular Toxicology Group of the Health Sciences Research Division at the Oak Ridge National Laboratory (ORNL) has immediate Ph.D. level openings for recent graduates. One position will conduct studies on a novel non-invasive imaging and therapeutic technology. Relevant experience in tissue culture and molecular biology techniques is required which may include: isolation of small oligonucleotides into eukaryotic cells, immunohistochemical procedures and cloning in eukaryotic and eukaryotic systems, and common techniques to manipulate and analyze nucleic acids. Experience in antisense technologies and the chemically modified oligonucleotides may be useful.

Ongoing projects also include studies in tumor suppressor genes, enhancement of cell line production in bacteria, and identification of genes related to immunodeficiency in mutant mice using differential display. Experience in differential display, signal transduction/protein phosphorylation, or cloning in non-E. coli systems may be considered for these projects.

ORNL is managed by Martin Marietta Energy Systems, Inc. for the U.S. Department of Energy. For immediate consideration, send your résumé by December 2, 1994, to: Dr. Craig Dees, Department SCI-1118, Oak Ridge National Laboratory, P.O. Box 2008, Oak Ridge, TN 37831-6400. For more information, telephone: 615-576-2128. ORNL is an Equal Opportunity Employer committed to building and maintaining a diverse workforce.

OPEN EXAMINATION FOR SUPERVISING TOXICOLOGIST

The California Environmental Protection Agency, Department of Pesticide Regulation seeks a SUPERVISING TOXICOLOGIST to manage the pesticide regulatory program. Requirements: Five years of postdoctoral experience in toxicology or closely related field. This experience must have included the interpretation of toxicological findings relative to probable human health, one year of experience in the development and design of toxicology testing and regulatory studies, and two years of experience in supervisory or management positions.

The position is located in Sacramento. Salary Range: $5,332-$6,450 per month. Comprehensive benefits package. Submit application and résumé to the address below by the Final Date: December 20, 1994.

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

For State application and announcement call 916-322-4553.

ECOLOGIST or AQUATIC BIOLOGIST. The Department of Biology, Kenyon College, invites applications for a one-year, leave-replacement position. The successful candidate will participate in the introductory biology sequence for undergraduates; teach advanced ecology or aquatic biology as appropriate; teach in the interdisciplinary, environmental studies course; and advise undergraduate, independent research projects. Applicants should hold a Ph.D. degree and be able to demonstrate teaching excellence. Statements of teaching and research interest, curriculum vitae, undergraduate and graduate transcripts and three letters of reference should be sent directly to: Search Committee, Biology Department, Kenyon College, Gambier, OH 43022. Review of applications will begin 10 December 1994.

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

MICROBIologist

The Foreign Animal Disease Diagnostic Laboratory, USDA, APHIS, on Plum Island, New York, is recruiting for a MICROBIOLOGIST with experience in all standard techniques of nucleic acid and protein analysis and specific experience in DNA amplification and sequencing. Experience in protein expression and characterization with animal viruses is desirable. Minimal educational requirement is a Bachelor’s degree in the biological or chemical sciences, Master’s degree preferred. Must be a U.S. citizen. Starting salary is $24,534 to $30,012 per year.

For additional information contact: Dr. Richard F. Meyer at 516-323-2500, ext. 388 or 256.

The Federal Government is an Equal Employment Opportunity Employer.

POSITIONS OPEN

MOLECULAR DEVELOPMENTAL BIOLOGIST: One-year appointment, with the possibility for a renewal, in the Department of Biology at Whitman College beginning in August 1995. Ph.D. required. Teach Molecular Biology and Developmental Biology (both lecture and lab) and keep in contact with the biology curriculum, and direct student research. Whitman has a strong commitment to excellence in undergraduate teaching, research, and student advising. Send curriculum vitae, three letters of recommendation, transcripts, and statement of teaching and research interests to: Professor Earl Fleck, Biology Department, Whitman College, Walla Walla, WA 99362. Telephone: 509-527-5135 or 509-527-5225; FAX: 509-527-5904. Email at fleck@whitman.edu. Closing date: January 15, 1995. Equal Opportunity Employer.

BIOLOGIST

The Biology Department at the University of Richmond, a highly selective, private liberal arts institution, is seeking to fill a three-year, non-tenure track position, effective August 1995. Ph.D. is preferred. Responsibilities include lecture and laboratory instruction in biology for non-majors and first-year botany and zoology for majors, with a teaching load of 12 contact hours per week this semester. Please send curriculum vitae, official graduate and undergraduate transcripts, a statement of teaching philosophy, and three letters of recommendation to: By January 20, 1995, to: Dr. W. John Hayden, Department of Biology, University of Richmond, VA 23173. As an Equal Opportunity/Affirmative Action Employer, we especially encourage applications from underrepresented groups including women and minorities.

TECHNOLOGY LIASON

The Edison BioTechnology Center (EBTC) is seeking a liaison to work with The Ohio State University, its technology transfer office and central Ohio biomed/bio-tech businesses to identify and transfer biomedical technologies with commercial potential to industry, and to coordinate EBTC’s business assistance efforts in the region. Requirements include an advanced degree in a relevant field, technology assessment experience, and experience working in both academia and industry. Experience developing business plans, funding strategies and ventures is preferred. This position is located in Columbus, Ohio. Submit résumé by December 30, 1994, to: EBTC, Department CK, 11000 Cedar Avenue, Cleveland, OH 44106.

SCIENTIST RESEARCH/COMPUTATIONAL

Develop advanced computer programs for ab initio quantum chemistry applications. Test, maintenance and troubleshooting. Customer technical support. Ph.D. Applied Physics or Chemistry. Experience: one year in job offered or two years as a Research Assistant in a scientific field. Advanced experience in theoretical programming. Fortran, C and UNIX. Advanced research experience: ab initio quantum chemistry, pseudospectral methodology, GVB theory, transition metal chemistry, local density functional theory and asymmetric computer programming. Experience writing scientific technical articles/reports. Ability to submit writing samples upon request. 40 hours per week. Job interview: Pasadena, California. Send address/resume to Job No. HR46263, P.O. Box 269065, Sacramento, CA 95826-9065.

Columbia University—A position for STAFF ASSOCIATE in the Department of Physiology is available to study locally glycated proteins and their receptors in Alzheimer’s disease. The applicant must have a Master’s degree and experience in the preparation and characterization of sugars and attention to detail. The applicant must have a strong background in chemistry, and the ability to utilize baculovirus expression systems for protein expression. Send curriculum vitae to: Dr. S. Lytton, Columbia University, Department of Physiology, 630 West 168th Street, New York, NY 10032. Columbia University is an Affirmative Action/Equal Opportunity Employer.

COURSES AND TRAINING

CAREER CHANGE OPPORTUNITY

This unique program offers the candidate with an earned doctorate in the sciences the opportunity to obtain the Doctor of Osteopathy (O.D.) degree in two calendar years. Employment opportunities exist in private practice, industry, education, and research. Contact: Dr. D. Chauncey, Program Director, Accelerated Program, The New England College, Department of Osteopathic Medicine, Route 10, Room S, 424 Beacon Street, Boston, MA 02115.

ANNOUNCEMENT

NATIONAL INSTITUTE ON DRUG ABUSE NATIONAL INSTITUTES OF HEALTH

AIDS AND DRUG ABUSE CONFERENCE, June 9–10, 1995, Scottsdale, Arizona. In conjunction with the 1995 meeting of the College of Pharmacology, the NIH will host a satellite conference, to review the state of research on AIDS and drug abuse, discuss future research priorities, and foster scientific collaborations. Deadlines for abstracts is February 28, 1995. For more information please contact: Harry Haverkos or Robert Bittles, NIDA. Telephone: 301-443-6697; FAX: 301-443-2317.

SYMPOSIUM

SYMPOSIUM: Stem Cells: Prospects for the Clinic; February 6 and 7, 1995; Hyatt Regency, Palo Alto, CA. SPEAKERS: I. Weissman, Stanford; G. Spangrude, Utah; D. Emery, MGH; R. Hoffman, SyStemix; S. Heinfeld, CellPro; R. Tsuchinski, SyStemix; M. Moore, Sloan Kettering; R. Mertelsmann, Germany; J. E Wagner, Minn; R. O’Reilly, Sloan Kettering; R. Mulligan, MIT; E. Gilboa, Duke; J. Lekman, AJS; S. Chamber, City of Hope; R. Botde, NIH; D. Kohn, UCLA, A. Deserres; M. Anderson, D. Valle, IntroGene; C. Bordignon, Italy; D. DiGiusto, Progenics; A. Galy, SyStemix; F. Gage, UCSF; S. Weis, Calgary, J. Rain, Penn; D. Saiki, SomaTech; R. Knudsen, Cellics; G. Reves, Ingenex; D. Harris, Arizona. Abstracts due January 28, 1995. Organizers: J. Larrick and J. Mule. Sponsor: J. Palo Alto Institute of Molecular Medicine, 2462 Wyandotte Street, Mt. View, CA 94043. FAX: 415-694-7771; Telephone: 415-694-1420; Email: PAIMM@AOL.com.

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Marketplace ads continue on page 1290
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We are seeking Scientists with broad scientific interests and an outstanding record of accomplishment who are interested in using their talents as a member of an interdisciplinary team. The individuals will play a key role in contig and library construction for a large-scale genomic sequencing effort, in the development of novel, global approaches to physical and genetic mapping, and in technology development for large-scale sequencing. Experience in physical mapping, sequencing, BAC or PAC libraries, human genetics or automation is desirable. PhD or the equivalent in experience is required and 2 years of postdoctoral experience preferred.

Darwin Molecular Corporation offers competitive salaries, benefits and an equity participation program. Our company’s start-up environment is ideal for self-motivated, innovative employees who are eager to grow with us.

To apply, please send curriculum vitae to: Human Resources SCI111894SQ, Darwin Molecular Corporation, 1631 220th Ave., S.E., Bothell, WA 98021.

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For Position B, we seek a BS level Research Associate to study the effect of neurotrophic factors on neurodegenerative diseases. Position requires experience with in vivo animal models and at least 2 years’ laboratory experience. Experience in immunohistochromy, in situ hybridization, or electrophysiology preferred. A Master’s degree is a plus. (Job Code: OXP-SC-1476)

**STEM CELL BIOLOGY**

This Research Associate will participate in ongoing programs to characterize the properties and mechanisms of action of known hematopoietic growth factors, as well as the identification and characterization of new growth factors. Qualified candidates will have a BS or MS in Cell Biology, Biochemistry or a related discipline. This position also requires at least 3 years’ relevant experience in mammalian cell culture, protein purification and characterization, and in vitro and in vivo bioassays. (Job Code: OXP-SC-2091)

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