POSITIONS OPEN

ANATOMIST

The Department of Biomedical Sciences (Division of Anatomy and Experimental Morphology) at McMaster University invites applications for a tenure-track position in anatomical science. The successful candidate should have a Ph.D. or equivalent level of training and experience. They should also have independent research interests and will be expected to qualify for a tenure-track position. Excellent opportunities exist for collaborative research within the Faculty of Health Sciences’ unique matrix structure. Ability to teach gross anatomy and participation in the graduate program are essential. Rank is open and salary will be commensurate with qualifications and experience.

Applications, including curriculum vitae and names of three references, must be received on or before 15 November 1990, to: Dr. A. J. Comcas, Chair, Department of Biomedical Sciences, McMaster University, 1200 Main Street West, Hamilton, Ontario L8N 3Z5, Canada.

In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents.

ASSISTANT PROFESSOR OF BIOSTATISTICS

School of Public Health, University of Minnesota is seeking candidates for a tenure-track position in biostatistics to begin summer or fall of 1991. A Ph.D. degree or equivalent in biostatistics, or a closely related field is required. The successful candidate will be expected to be licensed as a probability and statistical consultant. Applicants must also have strong research potential in one or more areas of expertise as determined by the department. The successful candidate will be expected to be licensed as a probability and statistical consultant. Applicants must also have strong research potential in one or more areas of expertise as determined by the department. Applications will be considered from persons with either a Ph.D. or M.D. degree. The position has a five-year appointment with the possibility of subsequent renewal. Applicants should submit a letter of application, curriculum vitae, and four letters of recommendation to: Dr. A. J. Comcas, Chair, Department of Biomedical Sciences, 1200 Main Street West, Hamilton, Ontario L8N 3Z5, Canada.

ASSISTANT PROFESSOR OF PHARMACOLOGY

The Department of Pharmacology at the University of Illinois College of Medicine seeks applications from highly qualified scientists capable of establishing independent research programs in areas of ongoing research. The department is seeking candidates in areas such as functional genomics, neuropharmacology, cardiovascular, respiratory, and endocrine research. Applicants must have a Ph.D. in pharmacology or a closely related field and should have experience in research activities. Applications are encouraged from individuals with experience in areas related to the department’s research programs. Applications should include a curriculum vitae, a statement of research interests, and the names of at least three references. All applications must be submitted by 15 November 1990. Applications will be considered on a continuing basis. For further information, please contact: Dr. J. DeRosa, Chair, Department of Pharmacology, University of Illinois College of Medicine, 100 Campus Drive, Urbana, Illinois 61801.

APPOINTMENT DEADLINE

15 November 1990
ASSISTANT PROFESSOR OF BIOLOGY. Applications are invited for a tenure-track position to begin September 1990 at a level determined by the candidate's expertise in the molecular biology of prokaryotes. Teaching responsibilities will include genetics, at least one advanced course in area of specialization, and participation in the Biology Colloquium. A candidate must be an expert in a modern private liberal arts college that takes pride in the quality of its science program. High-quality teaching is of very high priority along with M.D., M.D./Ph.D., or Ph.D. degrees whose scholarship is relevant to questions of the cellular and molecular biology of the immune system. Successful candidates will have full faculty appointment in the Department of Biology and will be members of the Graduate Program in Immunology. The position offers the opportunity to teach medical students, graduate students, and undergraduates. Applicants are encouraged. Applicants should submit curriculum vitae, bibliography, a brief description of research interests, and the names of three references to: Dr. Carolyn R. Newton, Department of Biology, Kalamazoo College, Kalamazoo, MI 49007. Review of applications will begin 1 November 1990. Affirmative Action/Equal Opportunity Employer. Kalamazoo College is committed to diversity and particularly encourages women and minorities to apply.

Department of Pharmacology, University of California, San Diego, seeks individuals for tenure-track position at University of California pay scale. Should have Ph.D. or M.D. degree, postdoctoral experience, potential for independent research in pharmacology and molecular biology, and interest in graduate and medical student teaching. Submit curriculum vitae, names of three references, and description of research interests to: Department of Pharmacology Search Committee, 0636, University of California, San Diego, La Jolla, CA 92093-0636. Closing date: 15 November 1990. Affirmative Action/Equal Opportunity Employer.

BIOPSYCHOLOGY/BEHAVIORAL NEUROSCIENCE. State University of New York (SUNY) at Stony Brook. The Psychology Department anticipates a position for an ASSISTANT PROFESSOR for September 1991. Applicants should be prepared to mount a coherent and productive research program. Stony Brook provides very competitive salaries, exceptional research space and time, a liberal and competitive benefits package, and a location convenient to New York City. Send curriculum vitae and at least four letters of reference to: Search Committee, Department of Psychology, SUNY at Stony Brook, Stony Brook, NY 11794-2500. SUNY is an Affirmative Action/Equal Opportunity Employer.

DEPARTMENT OF BIOLOGY CASE WESTERN RESERVE UNIVERSITY

A tenure-track position at the ASSISTANT PROFESSOR level in the area of CELL, MOLECULAR BIOLOGY

Applications will be considered with research interests in plant or animal systems, who have a strong commitment to teaching at both the undergraduate and graduate levels. Interested persons should submit curriculum vitae plus a statement of current research interests, and have three letters of recommendation sent to: Dr. Norman B. Kushmerick, Chairman, Department of Biology, Case Western Reserve University, Cleveland, OH 44106. Case Western Reserve University is an Equal Opportunity/ Affirmative Action Employer.

ASSISTANT PROFESSOR, DIVISION OF BIOLOGICAL SCIENCES. Candidates for this tenure-track ASSISTANT PROFESSOR position should use prokaryotic or eukaryotic microbial systems to answer fundamental questions in biochemistry and molecular biology. Research emphasis in the division include (i) cellular, molecular, genetic, and developmental biology; (ii) population biology, evolution; (iii) genomics, systematics, and behavior. We offer a highly competitive salary, generous start-up package, modern research laboratory and support facilities, and an environment with institution support for students and postdoctoral associates, and an interactive faculty. We are firmly committed to fostering ethnic and racial diversity. Applications from women and minorities are strongly encouraged. Applicants with a Ph.D. postdoctoral research experience and a demonstrated potential for excellence in both research and teaching should send their curriculum vitae, reprints of publications, statement of future research and teaching interests, and names, addresses, and telephone numbers of three references to: Dr. John F. David, Division of Biological Sciences, University of Missouri—St. Louis, One University Boulevard, St. Louis, MO 63121. Applications must be received by 1 February 1991 to receive full consideration.

ASSISTANT PROFESSOR, DEPARTMENT OF DEVELOPMENTAL BIOLOGY STANFORD UNIVERSITY SCHOOL OF MEDICINE

Stanford University is seeking applicants working in the field of developmental biology for a new assistant professor position within the Department of Developmental Biology. This department is located within the Beckman Center for Molecular and Genetic Medicine. The research interests of current faculty include the generation of asymmetry in C. elegans, the nature of the genetic program regulating fruiting body development in M. musculus, early development in Drosophila, the role of nuclear genes regulating differential mitochondrial biogenesis during development, cell fate in C. elegans, and oncogenes in mammalian tumorigenesis. Applicants are encouraged. Stanford University is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR, DEPARTMENT OF CHEMISTRY MCGILL UNIVERSITY FACULTY OF MEDICINE

Applications are invited for a tenure-track appointment at the ASSISTANT PROFESSOR level in September 1991. The successful candidate will be expected to attract major funding for her/his research, and establish a program of excellence in the area of contemporary biochemistry or molecular biology. Responsibilities include teaching at the undergraduate and graduate levels. Applications should send full curriculum vitae, list of publications, statement of research interests, and names of three references to: Dr. Philip E. Branton, Chairman, Department of Biochemistry, McIntyre Medical Sciences Building, 3655 Drummond Street, Montreal, Quebec, Canada H3G 1Y6. McGill University is committed to Employment Equity. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada.

ASSISTANT PROFESSOR OF CHEMICAL EDUCATION

Seek tenure-track faculty member to establish an original and nationally competitive program in chemical education research. The area is open, although those with interests in interactions between curriculum development and educational reform are particularly encouraged. Submit curriculum vitae, a summary of research plans, and statement of teaching interests plus three letters of recommendation to: Dr. Sherman H. Friedman, Department of Chemical Education, University of Illinois, Urbana, Illinois 61801. Closing date: 3 February 1991. Applications received after this date will be considered only if the position has not been filled.

ASSISTANT PROFESSOR OF IMMUNOLOGY AND THE DEPARTMENT OF MEDICINE

The Johns Hopkins University School of Medicine invites applications for the position of ASSISTANT PROFESSOR. We hope especially to consider applicants with M.D., M.D./Ph.D., or Ph.D. degrees whose scholarship is relevant to questions of the cellular and molecular biology of the immune system. Successful candidates will have the opportunity to join a research program and faculty appointment in the Department of Medicine and will be members of the Graduate Program in Immunology. The position offers the opportunity to teach medical students, graduate students, and undergraduates. Candidates are encouraged. Applicants should submit curriculum vitae, bibliography, a brief description of research interests, and the names of three references to: Dr. Douglas T. Fearon, Director Graduate Program in Immunology, 725 North Wolfe Street, Baltimore, MD 21207. The Johns Hopkins University is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR, DEPARTMENT OF ZOOLOGY UNIVERSITY OF MARYLAND

Applications are invited for an ASSISTANT PROFESSOR position on the tenure-track faculty to begin September 1991. The successful candidate will be expected to attract major funding for her/his research, direct graduate student research, and participate in the graduate and undergraduate programs. Send curriculum vitae, pertinent reprints, and a statement of research interests, and arrange for three letters of evaluation to: The Search Committee, Department of Zoology, University of Maryland, College Park, MD 20742. Closing date: 12 November 1990, or until a suitable candidate is found. Women and minorities are strongly encouraged. The University of Maryland is an Equal Opportunity/Affirmative Action Employer.

McGill University invites applications for a position as ASSISTANT PROFESSOR of Pharmacology. Responsibilities include teaching at the undergraduate and graduate levels. Candidates should send full curriculum vitae, list of publications, statement of research interests and names of three references to: Dr. Philip E. Branton, Chairman, Department of Biochemistry, McIntyre Medical Sciences Building, 3655 Drummond Street, Montreal, Quebec, Canada H3G 1Y6.

McGill University is committed to Employment Equity. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada.

ASSOCIATE PROFESSOR OF MICROBIAL GENETICS/PATHOGENESIS

Department of Microbiology and Immunology, University of Kentucky College of Medicine, invites applications for a full-time, tenure-track assistant professor position in the field of prokaryotic molecular genetics, especially as related to microbial pathogenesis. Strong applicants with requisite experience could be considered at the associate professor level. The position is a 12-month appointment with a competitive salary and negotiable starting date. Candidates with tenure-track appointments must have relevant postdoctoral training, outstanding research credentials, and an interest in participating in a vigorous graduate education program in training of medical students. M.D. candidates will have the opportunity for a joint appointment in the Infectious Diseases Division of the Department of Medicine. Support for research and development of the microbiology and immunology program at University of Kentucky is available. Interested persons should submit curriculum vitae, statement of research plans, and three letters of reference. Address to: Donald R. Hick, Ph.D., Search Committee, Department of Microbiology and Immunology, University of Kentucky, Lexington, KY 40536-0084. The University of Kentucky is an Equal Opportunity/Affirmative Action Employer.

ASSOCIATE PROFESSOR OF DEVELOPMENTAL BIOLOGY STANFORD UNIVERSITY SCHOOL OF MEDICINE

Stanford University is seeking applicants working in the field of developmental biology for a new tenure-track assistant professor position within the Department of Developmental Biology. This department is located within the Beckman Center for Molecular and Genetic Medicine. The research interests of current faculty include: the generation of asymmetry in C. elegans, the nature of the genetic program regulating fruiting body development in M. musculus, early development in Drosophila, the role of nuclear genes regulating differential mitochondrial biogenesis during development, cell fate in C. elegans, and oncogenes in mammalian tumorigenesis. Applicants are encouraged. Stanford University is an Equal Opportunity/Affirmative Action Employer.

ASSOCIATE PROFESSOR OF DEVELOPMENTAL BIOLOGY DUKE UNIVERSITY

Applications and nominations are invited for a tenure-track assistant professor position in the Developmental Biology Program occupying a fall 1991 position in the Department of Zoology at Duke University. We are interested in candidates with high research promise in developmental biology at all levels, including cell, molecular and subcellular aspects. In addition to maintaining a vigorous research program, responsibilities include teaching an undergraduate course in developmental biology and a graduate course of choice. Send curriculum vitae, description of research interests, and three letters of reference by 30 November 1990 to: Chair, Developmental Biology Search Committee, Department of Zoology, Duke University, Durham, NC 27706. Duke University is an Equal Opportunity/Affirmative Action Employer. Women and members of minority groups are strongly encouraged to apply.

ASSOCIATE PROFESSOR OF DEVELOPMENTAL BIOLOGY DUKE UNIVERSITY

Applications and nominations are invited for a tenure-track assistant professor position in the Department of Zoology at Duke University. We are interested in candidates with high research promise in developmental biology at all levels, including cell, molecular and subcellular aspects. In addition to maintaining a vigorous research program, responsibilities include teaching an undergraduate course in developmental biology and a graduate course of choice. Send curriculum vitae, description of research interests, and three letters of reference by 30 November 1990 to: Chair, Developmental Biology Search Committee, Department of Zoology, Duke University, Durham, NC 27706. Duke University is an Equal Opportunity/Affirmative Action Employer. Women and members of minority groups are strongly encouraged to apply.
The Ohio State University Postdoctoral Fellowships beginning July 1, 1991, are available in all academic fields. Appointment is for one or two years with a stipend of $23,000 for a twelve month appointment. An additional supplementation of up to $500 is provided to assist with moving expenses to Columbus. A one-time $500 allowance is also available for travel to professional meetings.

Only those Postdoctoral fellowship applications sponsored by a graduate faculty member of The Ohio State University will be considered by the Graduate School. The deadline for submission of all completed applications by a faculty member is January 7, 1991. Prospective applicants are advised to make early contact with a faculty member.

Candidates must have received the Ph.D. degree, or comparable professional degree, within the past five years. Contact a member of The Ohio State University graduate faculty or send a resume and description of your primary research interest to:

Roy A. Koenigsken
Dean of the Graduate School
The Ohio State University
230 North Oval Mall, #250
Columbus, Ohio 43210-1366

These materials will be forwarded to the academic department of your choice.

An Affirmative Action/Equal Opportunity Employer.

---

**IMMUNOLOGIST**

**Salary Range:** $24,000 to $41,796 Per Annum

Postdoctoral position available in NIH, National Institute of Allergy and Infectious Diseases, Public Health Service, Rocky Mountain Laboratories, Laboratory of Intracellular Parasites, Hamilton, Montana. Applicants must have a Ph.D. or M.D. degree with 0-3 years of postdoctoral research experience. A background in cellular immunology is required along with experience in T cell cloning to study the pathogenesis of Chlamydia trachomatis infection. Research will involve studying the pathogenesis of Chlamydia trachomatis infection and the cellular immune response to the 57kD chlamydial heatshock protein.

To Apply: Send curriculum vitae and three letters of recommendation to:

Dr. Harlan D. Caldwell, Chief, Laboratory of Intracellular Parasites NIH/NAID/Rocky Mountain Laboratories
903 South Fourth Street
Hamilton, MT 59840

U.S. Citizenship Required
NIH is an Equal Opportunity Employer

---

**POSITIONS OPEN**

**ASSISTANT PROFESSOR**

**DEPARTMENT OF PHYSIOLOGY**

**EAST TENNESSEE STATE UNIVERSITY**

**JAMES H. QUILLEN**

**COLLEGE OF MEDICINE**

A tenure-track position at the assistant professor level is to begin July 1, 1991. A Ph.D. degree with extensive training in physiology and have two or more years of postdoctoral experience. Potential to develop and sustain a fundable, independent research program will be an important selection criterion. Area of expertise is open, but preference will be shown to applicants whose research interests apply to cellular or molecular physiology. The department has six faculty members whose interests represent a wide range of cellular and systems-oriented research in the physiological sciences. The position is for collaboration throughout the department and college with research groups interested in microvascular cell biology, neuroscience, membrane transport, electrophysiology, cardiovascular control, and cell and molecular biology.

East Tennessee State University provides a growing research community, ample start-up funds, modest teaching loads, and a beautiful provincial setting. Candidates should submit curriculum vitae, names of three references, and a brief research prospectus to: Dr. William L. Joynson, Professor and Chair, Department of Physiology, P.O. 19, 780A, East Tennessee State University, Johnson City, TN 37614.

Closing date for applications will be 1 November 1990.

East Tennessee State University is an Affirmative Action/Equal Opportunity Employer.

**ANIMAL BEHAVIOR**

The Department of Biology of Pomona College invites applications for a tenure-track ASSISTANT PROFESSORSHIP beginning fall 1991. The successful applicant will have a broad background in organismal biology with a focus on animal behavior and will teach an undergraduate course in animal behavior and at least one additional course, in a field such as evolution, vertebrate physiology, or physiological ecology. The appointee will teach one course each semester and participate in team-teaching introductory biology. He/She will be expected to establish an active research program for which start-up funds are available. Pomona College is a 4-year, selective liberal arts college that encourages undergraduate research.

We particularly welcome applications from women and minorities. Send curriculum vitae, statements of research and teaching interests, proposing specific courses to be taught, and three letters of reference to:

Dr. Paul G. Bierzychudek, Search Committee Chair, Department of Biology, Pomona College, Claremont, CA 91711.

To assure full consideration of applicants, applications should be received by 9 November 1990.

**DEPARTMENT OF ANATOMY**

**COLLEGE OF MEDICINE**

**UNIVERSITY OF SASKATCHEWAN**

**SASKATOON, CANADA**

Applications are invited for two tenure-track faculty appointments at the rank of ASSISTANT PROFESSOR. Applicants for both positions must have a progressive research program in any area of the anatomical sciences.

Position 1: The successful candidate will have teaching experience in medical gross anatomy and ideally neuroanatomy, and will be responsible for a clinical residency program in anesthesia. Liaison with clinical departments is expected and preference will be given to clinical anatovademists.

Position 2: The appointee will participate in the histology and cell biology teaching programs of the department and will be expected to actively contribute to graduate courses and training in the area of research speciality.

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents. The University of Saskatchewan is committed to the principles of Employment Equity. An application including curriculum vitae, names of three referees, and a statement of proposed research and previous teaching experience, should be submitted by 31 December 1990 to:

Dr. G. D. Burkholler
Department of Anatomy
University of Saskatchewan
Saskatoon, Saskatchewan, Canada S7N 0W0

**POSITIONS OPEN**

**ASSISTANT PROFESSOR**

**ANIMAL-MICROBIAL INTERACTIONS**

Tenure-track position available fall 1991 at the assistant professor level in the Department of Bacteriology and Physiology at Louisiana State University (LSU). Ecologist with research in animal-microbial interactions and the role of microbes in aquatic food webs preferred. Successful applicant will teach at the undergraduate and graduate levels, and is expected to establish a vigorous research program with extramural funding. Postdoctoral research experience required. Send curriculum vitae, a statement of research interests, and the names of three references by 15 November 1990 to: John Ploeger, Chairman, Department of Bacteriology and Physiology, Louisiana State University, Baton Rouge, LA 70803-1725. LSU is an Equal Opportunity Employer.

The Department of Environmental, Population, and Organismic Biology, University of Colorado, Boulder, seeks an individual for an ASSISTANT PROFESSOR, tenure-track position to establish an active research and teaching program in plant-animal interactions, including such fields as pollination biology, herbivore-plant interactions, plant-animal-microorganism interactions, or seed and fruit dispersal. Applications addressed to Dr. Jeffery B. Mirkes at the above address or by phone at 303-492-4440, is preferred. Evaluation of applications will begin December 1. Send curriculum vitae, three letters of recommendation, and a one-page statement describing your research and teaching philosophy. Applications must be received by 1 December 1990. Assistant professor level is preferred, but candidates at all levels will be considered.

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

**MICROBIOLOGIST**

**ASSISTANT PROFESSOR.** Tenure-track position beginning August 1991. Teaching duties include microbiology, introductory biology, and occasionally a non-major course. Candidate may have the opportunity to develop an upper divison or capstone course in her area of expertise. Ph.D. required, commitment to excellence in undergraduate teaching essential. Candidate is expected to develop a well-funded, graduate student research program. Send curriculum vitae, transcripts,=reprints, and three letters of recommendation by 30 November 1990 to:

Dr. Wayne Price, Chairman, Division of Science and Math, Box 641, University of Tampa, Tampa, FL 33605-1490. The University of Tampa is an Equal Opportunity/Affirmative Action Employer and encourages women and minorities to apply.

**ASSISTANT PROFESSOR or senior instructor-level tenure-track position in marine biology or related area of interest.** The Department of Biology at the University of North Carolina at Chapel Hill seeks a postdoctoral appointee in marine biology who has experience teaching and research in marine areas of biology. The successful candidate will be expected to teach a lower division course in marine biology and a seminar in marine biology. Send curriculum vitae, three letters of recommendation, and a statement of teaching and research interests by 15 November 1990 to:

Dr. Roger M. McKelvey, Dean
University of North Carolina at Chapel Hill
Chapel Hill, NC 27514

**EVOLUTIONARY GENETICIST**

**UNIVERSITY OF TEXAS AT ARLINGTON**

The Department of Biology invites applications for a 9-month, tenure-track position in evolutionary genetics at the ASSISTANT OR ASSOCIATE PROFESSOR level, available September 1991. We seek a person applying quantitative methods to natural populations of plants or animals. Teaching will include a graduate and undergraduate course in quantitative or population genetics. The University of Texas at Arlington is a comprehensive university with a student body of 25,000 students located in the Dallas-Fort Worth metropolitan area. Applicants should submit curriculum vitae, research proposal, and three letters of recommendation by 1 December 1990 to:

Dr. Edmund D. Brodie, Jr., Chairman, Department of Biology, Box 19498, The University of Texas at Arlington, Arlington, TX 76019. Equal Opportunity Employer.
CANCER CYTOGENETICIST: Tenure-track position open at the University of Alaska Anchorage (UAA). The position is full time, tenure track, and funded through the UAA biomedical program which is part of the medical education agreement between the University of Washington School of Medicine and the states of Washington, Alaska, Montana, and Idaho (WAMI). Annual teaching responsibilities are either a cell biology course for first year students and one to two courses for undergraduate and graduate biology majors. The successful candidate must have a Ph.D. or M.D., postdoctoral research experience, and a strong potential to develop a research program and attract extramural funding. Research interests must complement the needs and resources of the UAA biomedical program and should include some area of cell biology, molecular biology, neurobiology, immunology, or microbiology. An affiliate faculty position at the University of Washington School of Medicine is possible. Salary: Competitive, based on experience.

Recruitment procedure: Submit a letter of application briefly stating teaching experience in cell pathology or neuroscience and research interests, curriculum vitae, and names, addresses, and telephone/FAX numbers of three references to: Michael J. Dimino, Ph.D., Director, Biomedical Program, University of Alaska Anchorage, 3211 Providence Drive, Anchorage, AK 99508. Closing date: All application materials must be received by 30 November 1990.

POSITIONS OPEN

Emory University: The Department of Chemistry at Emory University invites applications for a tenure-track position in ORGANIC CHEMISTRY at the ASSISTANT PROFESSOR level or higher beginning in fall 1991. Candidates in all fields of organic chemistry are encouraged to apply. The successful candidate will be expected to develop an outstanding and productive program of creative and original research. A commitment to excellence in undergraduate and graduate teaching is required. Applicants should send curriculum vitae, statement of research plans, and arrange for the submission of three letters of recommendation to: Professor Dennis Liotta, Department of Chemistry, Emory University, Atlanta, GA 30322. All applications will be reviewed beginning 1 November 1990. Emory University is an Equal Opportunity/Affirmative Action Employer.

The Upjohn Laboratories Division of The Upjohn Company, a worldwide leader in pharmaceutical research, is seeking a Director to lead our Cell Biology Research Unit as well as maintain their own active research effort. The successful candidate will be responsible for directing a multi-disciplinary research group of 30-40 scientists and staff working in several areas of cellular and molecular biology including protein export, cellular immunology, receptor biology and second messenger systems, and growth control. The focus of the department is to use cellular approaches to complement and support drug discovery programs at Upjohn. Qualified applicants will possess:

- A Ph.D. and/or M.D. with an established record of scientific excellence as evidenced by publications and/or patents.
- Commitment to drug discovery and development.
- Administrative experience and excellent communications skills.

Upjohn offers a competitive compensation and benefits package in addition to a stimulating, multi-disciplinary research environment at our modern laboratories in Kalamazoo, Michigan. In 1989, Upjohn committed over $400 million to research and development and is currently increasing its main research facility by 50%. Qualified and interested applicants are invited to forward their CV/Resume to: THE UPJOHN COMPANY, CORPORATE RECRUITING, KALAMAZOO, MI 49001-0199. Refer to position number 6967-HA in your cover letter. A Equal Opportunity Employer M/F.

Our Commitment to Scientific Excellence Continues....
POLYMER APPLICATIONS FROM MOL e STRUMENT Grame virology, immunology, and environmental health sciences. The candidates should have a proven record of interdisciplinary research and a demonstrated capacity to direct a core laboratory in molecular biology. Appointment at the associate level requires a demonstrated record of funding molecular activity. Competitive salary with start-up funds available. Deadline for applications is 1 November 1990 or the first of the month until positions are filled. Submit curriculum vitae, research interests, names of three references to: Bruce A.Botstein, Ph.D., Director, Toxicology Program, University of Maryland at Baltimore, Howard Hall, Room 544, 600 W. Redwood Street, Baltimore, MD 21201. The University of Maryland is an Equal Opportunity Educator and Employer and especially invites applications from women and minorities.

DNA-FARBER CANCER INSTITUTE HARVARD MEDICAL SCHOOL

Dana-Farber Cancer Institute and Harvard Medical School are seeking a PROFESSOR to study mammalian cell and molecular pharmacology to be located at the Dana-Farber Cancer Institute. The successful candidate should have a broad understanding of molecular biology, and an interest in teaching and in graduate and medical education. The successful candidate is expected to contribute to the understanding of the basis of action of vitamins and hormones having relevance to child health and fetal development. The successful candidate is expected to contribute to the understanding of the basis of action of hormones and morphogens that act via nuclear receptors. The successful candidate will be expected to participate in teaching of medical and graduate students and participate in one or more of the professional training programs conducted by the Division of Medical Sciences. Administrative responsibilities may include serving on a committee of the Department of Biological Chemistry and Molecular Pharmacology. The Dana-Farber Cancer Institute and Harvard Medical School is an Equal Opportunity Employer. Applications should be sent to: Dr. Richard Kolodner, Division of Cellular and Molecular Biology, Dana-Farber Cancer Institute, 44 Binney Street, Boston, MA 02115. Harvard Medical School and the Dana-Farber Cancer Institute are Equal Opportunity/Affirmative Action Employers. Women and minority candidates are particularly encouraged to apply.

The Registry of Comparative Pathology (RCP), funded by the Division of Research Resources of the National Institutes of Health (NIH) seeks a CHIEF PATHOLOGIST (D.V.M. or M.D., Board-certified), with broad interests and competence in comparative pathology. The RCP, located at the Armed Forces Institute of Pathology in Washington, D.C., serves as a center for the study of pathologic processes in experimental animal models and development of national policy to facilitate education and research involving spontaneous and experimentally induced disease. The successful candidate will be a creative person who will participate in the preparation of a comprehensive comparative pathology bibliography. She/he will have strong interests and competence in modern methods of information transfer and communication. She/he must be capable of managing multiple projects, writing, and verbal communication are essential. Experience in grant writing and fund raising is required. Union representation is not recognized. Salary and starting date are negotiable. Applicants should submit curriculum vitae with names of three individuals to provide letters of reference by 30 November 1990 to: Dr. John A. Sorenson, Chairman of the RCP Advisory Committee, Department of Pathology, Northwestern University Medical School, 303 East Chicago Avenue, Chicago, IL 60611.
At Becton Dickinson, World Health Is A Lifetime Occupation.

For generations, we've been helping the world face some of its toughest medical challenges. And that's created some of the most challenging careers for scientists anywhere. We're Becton Dickinson, and in our Research Center, we're involved in scientific exploration and experimentation in its purest form. The knowledge we gain paves the way for the development of innovative diagnostic and surgical technology, to produce the kind of equipment and supplies that change lives—and there's no more worthwhile way to make your livelihood.

Project Leader
Barrier Technologies
This position is responsible for defining, directing and conducting research in the area of gas barrier systems for use in disposable medical and related applications. Ph.D. in Polymer Chemistry, Organic Chemistry, or a related discipline and demonstrated accomplishments by pertinent patents and/or publications is required. 4 to 8 years of increasingly responsible experience, preferably in coatings or membrane separations, is also necessary.

Biophysicist
Surface Science
This position in our Surface Science Group reports to the Senior Group Scientist and is responsible for defining and carrying out research in the area of bloodcell contact phenomena with polymer surfaces. Ph.D. in Physical Chemistry or Biophysics with demonstrated experience in blood and/or cell biochemistry and working knowledge in polymer surface chemistry is required. 2-5 years of industrial experience desirable.

At Becton Dickinson, you'll earn a generous salary and benefits package, while contributing to the future of world health. Please send your resume to: Becton Dickinson & Company Research Center, 21 Davis Drive, Research Triangle Park, NC 27709, AA/EEO Employer.

We've been quietly improving the world's health for 114 years.

Today, that commitment continues worldwide with the discovery, development, manufacturing, and marketing of the highest quality pharmaceutical, medical instrument and animal health products. With current annual investments of more than $600 million in research and development programs, our continued success requires the finest scientific talent available.

BIOCHEMISTS
Candidates must be familiar with protein chemistry, including the purification and characterization of proteins using a number of chromatographic, spectroscopic, and electrophoretic techniques. Expertise in immunochemistry and enzymology is also preferred.

Candidates who have a familiarity with cellular biochemistry are also needed.

In addition to attractive salaries and benefits, Lilly provides unprecedented programs for continued growth. If you have a personal commitment to the future of global health care, bring your talents to Lilly. For consideration, please send a resume to:

Kristin Roehr
Corporate Recruitment
Eli Lilly and Company
Lilly Corporate Center
Indianapolis, IN 46285

Equal Opportunity Employer

Commitment to Excellence
THE MEDICAL COLLEGE OF PENNSYLVANIA

CHAIR

DEPARTMENT OF ANATOMY AND NEUROBIOLOGY

The Medical College of Pennsylvania invites applications and nominations for the position of Chair, Department of Anatomy and Neurobiology. The department currently has ten full time faculty members with a strong emphasis on Neuroscience research ranging from molecular to behavioral studies. The faculty is well funded and, in addition, has a NIH funded Program Project Grant on mechanisms of recovery from spinal cord injury and a funded postdoctoral program. The number of individuals, including staff, pre and postdoctoral students and faculty, totals sixty-three.

We seek a distinguished scientist and educator in cell, developmental, molecular, or neurobiology or genetics with proven ability in Administration who can lead and expand the department. The Medical College of Pennsylvania is undergoing an expansion phase of its physical facilities that will allow the potential for the addition of faculty and space to the department.

A letter of interest or nomination, curriculum vitae, and the names of at least three references should be sent by October 31, 1990 to George L. Popky, M.D., Chair, Anatomy and Neurobiology Search Committee, Professor and Chairman, Department of Radiologic Sciences, The Medical College of Pennsylvania, 3300 Henry Avenue, Philadelphia, Pennsylvania 19129. Equal opportunity/affirmative action employer.

DEPARTMENT OF MICROBIOLOGY
OKLAHOMA STATE UNIVERSITY

The newly re-organized Department of Microbiology at Oklahoma State University is rapidly expanding to offer programs in both microbiology and cellular biochemistry. To meet its teaching and research goals, the department anticipates filling two tenure-track positions initially.

The first position seeks a researcher in ENVIRONMENTAL MICROBIOLOGY. The successful candidate will be active in the application of molecular techniques in areas such as molecular responses to environmental stimuli/stressors, molecular basis of microbial community structure or trophic interactions, molecular evolution, or environmentally-controlled gene regulation.

The second position is in the area of PHOTOSYNTHESIS and may deal with topics such as structure/function of photosynthetic reaction centers, electron transport, energy coupling, transport, protein-membrane interactions, or genomic control of bioenergetics in procaryotic or eucaryotic photosynthetic systems.

These positions may be filled at either the ASSISTANT or ASSOCIATE PROFESSOR level with rank and salary commensurate with experience. The Ph.D. degree in microbiology, biochemistry, cell biology, or related fields is required; relevant post-doctoral experience is highly desired. The candidates will be expected to develop an independent externally-funded research program and to actively participate in the graduate programs. The candidates will also be expected to teach courses in their specialty as well as participate in the microbiology and cell biology curricula. Substantial start-up funds and newly-renovated space are available.

Applications are invited from individuals possessing a BS or MS degree and experience with techniques in molecular biology and protein expression. The successful candidates will be required to play central roles with groups working on immunosuppression through a multi-disciplinary approach requiring the cloning and expression of natural and recombinant biological products.

The company is located in a new research facility near New Haven and Yale University, and midway between Boston and New York City. We offer competitive salaries, excellent benefits, and a stimulating and challenging work environment.

Applicants should forward a curriculum vitae along with a statement of research interest and capabilities in confidence to: Research Director, Molecular Therapeutics, Inc., 400 Morgan Lane, West Haven, CT 06516.

An Equal Opportunity Employer M/F/H/V

DEPARTMENT OF MICROBIOLOGY
OKLAHOMA STATE UNIVERSITY

The newly re-organized Department of Microbiology at Oklahoma State University is rapidly expanding to offer programs in both microbiology and cellular biochemistry. To meet its teaching and research goals, the department anticipates filling two tenure-track positions initially.

The first position seeks a researcher in ENVIRONMENTAL MICROBIOLOGY. The successful candidate will be active in the application of molecular techniques in areas such as molecular responses to environmental stimuli/stressors, molecular basis of microbial community structure or trophic interactions, molecular evolution, or environmentally-controlled gene regulation.

The second position is in the area of PHOTOSYNTHESIS and may deal with topics such as structure/function of photosynthetic reaction centers, electron transport, energy coupling, transport, protein-membrane interactions, or genomic control of bioenergetics in procaryotic or eucaryotic photosynthetic systems.

These positions may be filled at either the ASSISTANT or ASSOCIATE PROFESSOR level with rank and salary commensurate with experience. The Ph.D. degree in microbiology, biochemistry, cell biology, or related fields is required; relevant post-doctoral experience is highly desired. The candidates will be expected to develop an independent externally-funded research program and to actively participate in the graduate programs. The candidates will also be expected to teach courses in their specialty as well as participate in the microbiology and cell biology curricula. Substantial start-up funds and newly-renovated space are available.

Applications are invited from individuals possessing a BS or MS degree and experience with techniques in molecular biology and protein expression. The successful candidates will be required to play central roles with groups working on immunosuppression through a multi-disciplinary approach requiring the cloning and expression of natural and recombinant biological products.

The company is located in a new research facility near New Haven and Yale University, and midway between Boston and New York City. We offer competitive salaries, excellent benefits, and a stimulating and challenging work environment.

Applicants should forward a curriculum vitae along with a statement of research interest and capabilities in confidence to: Research Director, Molecular Therapeutics, Inc., 400 Morgan Lane, West Haven, CT 06516.

An Equal Opportunity Employer M/F/H/V

RESEARCH
SCIENTISTS

Applications are invited from individuals possessing a BS or MS degree and experience with techniques in molecular biology and protein expression. The successful candidates will be required to play central roles with groups working on immunosuppression through a multi-disciplinary approach requiring the cloning and expression of natural and recombinant biological products.

The company is located in a new research facility near New Haven and Yale University, and midway between Boston and New York City. We offer competitive salaries, excellent benefits, and a stimulating and challenging work environment.

Applicants should forward a curriculum vitae along with a statement of research interest and capabilities in confidence to: Research Director, Molecular Therapeutics, Inc., 400 Morgan Lane, West Haven, CT 06516.

An Equal Opportunity Employer M/F/H/V

Molecular Therapeutics Inc
Agricultural Biotechnology Research

Scientists
Biochemistry Department
CIBA-GEIGY Agricultural Division’s Biotechnology Research Unit, in Research Triangle Park, NC, is a leader in genetic engineering, crop improvement and crop protection chemicals. We offer two challenging opportunities to contribute to our Biochemistry Department. Initial primary focus will be to develop assay schemes for analysis of transgenic crop plants. We seek scientists with an MS and 2+ years experience or BS and 4+ years with a concentration in one of the following areas:

Immunology Research
Requires extensive experience in immunoassay design and development, immunoaffinity purification, hybridoma culture and production, as well as PAGE and ELISA. Skill in PCR or related molecular biology techniques preferred.

Molecular Biology
Requires extensive experience in PCR and Southern analysis. Additional experience in Northern analysis, ELISA, immunoassay design and development preferred.

If you possess either of the above qualifications, we invite you to be part of our innovative research team. We offer an excellent salary, comprehensive benefits including relocation assistance, a high level of professional visibility and career advancement potential. Please send resume including salary history, with three letters of professional reference and transcripts, indicating your area of interest, in confidence to: Dr. Mary-Dell Chilton, CIBA-GEIGY Corporation, Agricultural Division, PO Box 12257, Research Triangle Park, NC 27709. We Are An Equal Opportunity Employer M/F/H/V.

Science Serving Mankind

CIBA-GEIGY

TANOX BIOSYSTEMS, INC.
Where developing talents and developing products go together.

TANOX BIOSYSTEMS, located near the Texas Medical Center in Houston, is developing immunotherapies for the treatment of allergies, AIDS, B cell cancers, and rheumatoid arthritis. We are looking for motivated, growth-minded scientists for the following positions:

Production Cell Culture Specialist
Responsibilities: Adaptation and scale-up of hybridoma or transfectoma cell lines to achieve optimal production; production of pharmaceutical human and humanized monoclonal antibodies in pilot and commercial systems.

Candidates: Experience in cell culture; excellent sterile technique and mechanical aptitude to work with large-scale cell cultures; ability to work independently in multi-task, multi-project environment; even-tempered and strong goal-oriented personality; knowledge of cGMP and pharmaceutical production a plus.

Analytical Scientist
Responsibilities: Development and validation of analytical tests to be used for product quality control and clinical trials of pharmaceutical antibodies.

Candidates: Experience in immunosays, bioassays, chromatographic methods; communication skills; knowledge of cGMP.

Cell Analyses Specialist
Responsibilities: Development of diagnostic technology for enumeration of leukocyte subsets based on cell adhesion to solid-phase immunoadsorbents.

Candidates: Experience in immunochemistry, blood leukocytes processing; experience with cell adhesion, diagnostic instrumentation, and image analysis a plus.

Interested individuals please send C.V. in confidence to Vice President of Administration, Tanox Biosystems, Inc., 10301 Stella Link, Houston, Texas 77025.
POSITIONS OPEN

MOLECULAR GENETICS

The Wilmer Ophthalmologic Institute of The Johns Hopkins University, School of Medicine, invites applications for a full-time faculty position at the PROFES-
SOR level in a newly created molecular genetics unit. The unit will occupy approximately 5500 square feet of new space, which will be finished by early summer 1991.

The successful candidate will be expected to develop a vigorous program in both basic and disease-related mol-
ecular pathology and related fields. The candidate will be responsible for recruitment of investigators from established investigators with a strong track record in these areas. Scientists with previous experience in molecular pathology and related fields, but who are willing to switch the emphasis of their investigations to the eye, are also encouraged to apply. The position will offer extensive opportunities for interactions with ophthalmology, genetics and basic scientists interest in animal and pathological genetic mechanisms in the eye.

Detailed curriculum vitae, including a list of publica-
tions and current grant support, a description of current research interests, and three letters of recommendations should be addressed to:

Ruben Adler, M.D.
Chair, Search Committee
The Johns Hopkins School of Medicine
The Wilmer Institute
21 North Wolfe Street
Baltimore, MD 21205

The Johns Hopkins University is an Affirmative Action/Equal Opportunity Employer.

CHAIRPERSON

The Medical University of South Carolina (MUSC) College of Medicine is seeking qualified candidates for the position of provost and director of the Chairperson of the Depart-
ment of Biochemistry and Molecular Biology. Successful candidates must have and outstanding record of achievement in research, demonstrated leader-
ship ability, and appreciation for and commitment to the continuing role of a department of biochemistry and molecular biology in educating both medical and gradu-
ate students. The Medical University of South Carolina is an institution of growing research capability. The re-
sources are available at MUSC to build the Department of Biochemistry and Molecular Biology into a competi-
tive unit of international quality.

Interested applicants should submit curriculum vitae, bibliography, and the names of four references to:

E. Carvelle LeRoy, M.D.
Chairman, Biochemistry Search Committee
C/o Dean's Office
College of Medicine
Room 612 CSB
Medical University of South Carolina
17 Ashley Avenue
Charleston, SC 29425-7301

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

DIRECTOR OF RESEARCH AND HIGHER EDUCATION

The Hawk Mountain Sanctuary Association invites applications for a Ph.D. level candidate to direct the sanctuary's research program and to develop affiliates with colleges and universities for undergradu-
ate and graduate field courses and research studies. Candidates should have an extensive background in ornithology, field research, literacy with statistical software, demonstrated teaching capabilities, and the ability to work in a team setting with researchers and research projects. Send cover letter and resume to: Cynthia Lehman, Executive Director, Hawk Mountain Sanctuary Association, Route 2, Kempton, PA 19449.

IVF LABORATORY DIRECTOR

Ph.D. to direct human IVF and reproductive endocrinology laboratory in an established program in Chicago. Expertise in human in vitro fertilization required, includ-
ing gamete and embryo biology and tissue culture tech-
niques. Competitive salary dependent on experience. Replies, including curriculum vitae, should be sent to:

Pat Paul, M.D., Ph.D.
Director, Family Fertility Center
Grant Hospital of Chicago
550 West Webster Avenue
Chicago, IL 60614

POSITIONS OPEN

DIRECTOR OF CONSERVATION POLICY

World Wide Fund for Nature (WWF) is seeking candidates for the position of director of conservation policy. This position is based at WWF's International headquarters in Gland, Switzerland, and reports to the deputy director general, program.

The director of conservation policy will plan and direct the development of WWF's global and regional policy activi-
ties. These are focused in the fields of biodiversity conservation, the sustainable use of natural resources, and reducing pollution and the wasteful consumption of resources and energy. Requirements:

• A Ph.D. in natural resource management, biological sciences, environmental law, resource economics, or a related field. Candidates with an advanced degree and equivalent work experience will also be considered.
• Extensive experience in one or more areas of natural resource policy, with demonstrated success in developing, implementing, and managing a complex conservation policy program. The successful candidate will have to manage approximately 15 professional staff.
• Fluency in English is required. Other language capabilities, particularly French, Spanish, and German, would be an advantage.
• Experience in working with NGOs, aid agencies, and international institutions is desirable.

Please write, with comprehensive curriculum vitae and recent photograph, to: Personnel Officer, WWF International, Avenue de la Paix 89, CH-1211 Gland, Switzerland, Closing date for applications: 1 October 1990.

LABORATORY DIRECTOR

ENVIRONMENTAL MONITORING SYSTEMS LABORATORY
OFFICE OF MODELING, MONITORING, AND QUALITY ASSURANCE
LAS VEGAS, NEVADA

ES 401/801/1301

$71,200 to $77,600

The U.S. Environmental Protection Agency (EPA) is seeking highly qualified candidates for the position of laboratory director, Environmental Monitoring Systems Laboratory, Las Vegas, Nevada (EMSL-LV) Office of Modeling, Mon-
itoring Systems, and Quality Assurance (OM-
MSQA). The EMSL-LV, a component of the Office of Research and Development, is respon-
sible for research and development supporting a major segment of the agency's programs relating to human and ecological health, and the environ-
mental pollutants. The laboratory conducts re-
search and development in the areas of: analytical chemistry, immunochemistry, field monitoring methods and design, ecological status and trends, terrestrial ecology, integrated human ex-
posure assessment, human biomarkers of expo-
sure, remote sensing, geohydrology, and envi-
ronmental radiation assessment.

Applicants for this Senior Executive Service (SES) position must have a baccalaureate or higher degree in life sciences, physical sciences, or engi-
neering, or a field relating to the work of the laboratory, and professional experience demonstr-
ing leadership and technical competence in one of those fields. Applicants must also meet the technical and executive qualifications described in the Vacancy Announcement. Write to: copy of the Vacancy Announcement, call or write:

Chaunta Gladney
Environmental Protection Agency
Research and Development
Room MS910
Mail Code: FM-224
401 M Street, S.W.
Mail code: MS910
Washington, DC 20460
Telephone: 202-822-3328

Applications must be postmarked by 6 November
1990. EPA is an Equal Opportunity Employer.

CHIEF OF LIVER TRANSPLANT SERVICE
UNIVERSITY OF TEXAS MEDICAL SCHOOL AT HOUSTON

Applications are invited for a tenure-track appoint-
ment as chief of the Liver Transplant Service within the Department of Surgery/Division of Immunology and Organ Transplant. This American Board of Surgery-
quiled surgeon will be responsible for all levels of liver transplantation patient care, selection, organ procurement, recipient selection, pre- and postop-
erative care, immunosuppressive therapy, and outpatient follow-up. The applicant must have performed a mini-
 mum of 50 liver transplants and be a member of the Program Meeting UNOS criteria for liver transplantation. A com-
pleted fellowship in liver transplantation is desirable. A letter of reference and curriculum vitae should be sent to:

Dr. Harry Deierlance, M.D.
Chairman, Department of Surgery
University of Texas Health Science Center
Houston, TX 77225

The University of Texas Health Science Center at Houston is an Equal Opportunity/Affirmative Action Employer.

Academic medical researcher for the Portland Veterans Affairs Medical Center (PVAMC) and the Oregon Health Sciences University (OHSU) seek an accom-
plished biomedical scientist, M.D., or Ph.D. degree for the position of ASSOCIATE CHIEF OF STAFF for research at the PVAMC. He/she will be responsible for administering the PVAMC research pro-
gram, coordinating the relationship between research at the PVAMC and OHSU, and representing the PVAMC's research program to VA central office. This position will have significant program and budget development responsibilities. The successful candidate will have a significant record of independent or institutional support, including an active program of research, and a minimum of 9 academic years as a principal investigator. A Ph.D. or M.D. degree should be obtained within the last 5 years. For additional information, contact:

Dr. Henry Sullivan
PVAMC, Mail Code: MV-300
3737 Main Street
Portland, OR 97201

The Portland Department of the University of California, San Diego (UCSD), seeks a CHIEF OF HEMATOLOGY/ONCOLOGY to be re-
ponsible for directing the Clinical Hematology Labora-
tory of UCSD Medical Center and for participating in the Bone Marrow Reading. Applicants should have a distinguished record in research, teaching, medical students and residents, and clinical activities sufficient to qualify for appointment as professor of pathology with tenure at UCSD. Applicants should also have Board certification in anatomic pathology with subspecialty certification in hemopathology and should have experience in the field of bone marrow transplan-
tation service. Medical licensure in California is highly desirable. Salary will depend upon the qualifications and experience of the candidate. The University offers a competitive salary and benefits package.

Applications should be postmarked by November 1, 1990. Interested candidates should submit curriculum vitae and names of five refer-
ces by November 1, 1990 to: Regents of the University of California, c/o University of California, San Diego, David N. Bailey, M.D., Professor and Chairman, Department of Pathology, 9500 Gilman Drive, La Jolla, CA 92039–0612. Affirmative Action/Equal Opportunity Employer.

CHAIR, DEPARTMENT OF IMMUNOLOGY MAYO CLINIC

Applications are invited for chair, Department of Immunology, Mayo Clinic. The department has a highly interdisciplinary group of 11 immunologists addressing diverse interests in basic science and clinical immunology re-
search. Department has a well-supported graduate pro-
gram in immunology. Applicants should have an internationally recognized record of research in immunobiology and experience in graduate education and administration. The department chair will be expected to continue an active research program and provide a leadership role in the recruitment of additional staff positions and in the professional development of faculty members. Extensive participation in curriculum vitae, brief statement of research interests, and names of three references by 30 November 1990 to:

David J. McKeen, Ph.D., Department of Immunol-
Enhance Your Career With Baxter Hyland

Baxter Healthcare Corporation, an international leader in the pharmaceutical industry, currently has exceptional career growth opportunities for experienced professionals in our Hyland Division, located in Duarte, CA.

Characterization Supervisor

Supervising R&D activities in our characterization lab, you will develop analytical techniques/methods, and recommend project timelines, staff and budget. We require a Ph.D. in Biochemistry/Analytical Chemistry with at least 2-3 years in protein characterization and structure/function analysis. Proficiency in HPLC, carbohydrate analysis, amino acid analysis/sequences, CD, ORD, MMR and mass spectroscopy needed. (Dept. BF-CS)

PROCESS ANALYSIS

Research Scientist III

Plan and implement the testing of patient samples including cataloging, shipping, assay development and validation as well as process validation. Requires: BS in Biochemistry with 3-5 yrs. experience or MS degree with 1-3 yrs. experience in operation of analytical instruments and protein purification techniques. (Dept. MB-5)

IMMUNOLOGY

Basic and applied research relating to product support and new technology product development assisting in areas of infectious disease treatment specifically in the development of monoclonal antibody based technologies.

Scientist II

Requires a Bachelor's degree in Immunology/Biochem or related field with 1-2 yrs. experience in R&D. Must have apparent expertise in techniques for mammalian tissue culture, monoclonal antibodies production and ELISA/Western method development. (Dept. MB-26)

Scientist III

Requires a Bachelor's degree in Immunology/Biochem or related field with 2-5 yrs. experience in R&D. Must have experience in Immunologic and Biochemical techniques. (Dept. MB-27)

Scientist IV

Assist in developing new technologies/products in the areas of antibody based infectious disease treatment. Requires a Ph.D. in Physiology, strong background in Immunology, with 1-2 years' post-doctoral experience or equivalent. Knowledge of in vitro function analysis and in vivo models of immunologic processes essential. Infectious diseases and/or cytokines systems familiarity beneficial. Good oral/written communication skills necessary. (Dept. MB-28)

VIROLOGY

Scientist III

R&D involves evaluation of antiviral agents, immunochemical and biochemical assays in retrovirology. Requires a B.S. in Microbiology, Biology, Biochemistry or related field, with 3-5+ years related experience— or MS with 1-3 years' experience in retrovirology or related discipline. Background with infectious HIV-1 infectivity assays, immunochemical and biochemical assays essential. Familiarity with process validation, GLP and computer literacy are necessary, along with excellent written/oral communication skills. (Dept. MB-12)

Scientist IV

R&D including process validation, evaluation of antiviral agents, PLA/IND support, assay development and applied viral research. We require a Ph.D. in Virology, Microbiology, Biology, Biochemistry or related field with 3-5 years post-doctoral experience in Virology. Background with HIV-1 infectivity assays and Retrovirology desirable. Familiarity with process validation, GLP and computer literacy are necessary, along with excellent written/oral communication skills. Supervisory experience a plus. (Dept. MB-11)

Make Baxter—and sunny Southern California—your place of choice. Enjoy year-round warm weather and the rewards of a Fortune 100 company, including a smoke-free work environment, an attractive salary, and comprehensive benefits. Employment consideration is contingent upon the results of a drug screening test. For confidential consideration, please send your resume or CV with salary requirements (please indicate appropriate Dept.) to: Baxter, Hyland Division, Human Resources, 4501 W. Colorado Blvd., Los Angeles, CA 90039. We are an Equal Opportunity Employer.
DIRECTOR
MAMMALIAN TOXICOLOGY PROGRAM
The Life Sciences Division of SRI International, a nonprofit research and consulting institute based in the San Francisco Bay Area, is seeking a director of its Mammalian Toxicology Program. Experience managing acute and chronic toxicology studies is required. A background in inhalation toxicology, AIT certification, and an established publication and support record are desired. Send résumé, publication list, and names of three references to: Martha Bishop, Director, Cancer Biology and Toxicology Laboratory, 333 R. Vawassen Avenue, Menlo Park, CA 94025. SRI International is an Equal Opportunity Employer, M/F/H/V.

DIRECTOR
CENTER FOR CANCER TREATMENT AND RESEARCH
RICHLAND MEMORIAL HOSPITAL AND THE UNIVERSITY OF SOUTH CAROLINA
The Center for Cancer Treatment and Research invites applications from and nomination of individuals who have a strong background in grant-funded clinical cancer research. This person will be responsible for the overall medical and research direction of the cancer program, working with a multidisciplinary university team and a community regional teaching hospital with university appointment. Construction is currently underway for a 70-bed, inpatient/outpatient, facility with centralized patient and research services and laboratories due for opening in January 1992.

Interested individuals should submit their curriculum vitae and documents to: Mr. George Fant, Chairman, Search Committee, Center for Cancer Treatment and Research, Five Richland Medical Park, Columbia, SC 29603.

HEAD
DEPARTMENT OF PHYSICS
UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN
The Department of Physics at the University of Illinois is seeking well-qualified applicants for the headship of the department. The department has a strong teaching and research program covering a broad range of experimental and theoretical physics. Applicants should have an international reputation in research and a strong interest in developing the research and teaching programs of the department. The head of the department is the chief administrative officer of the department for administration, budgetary, and promotion decisions, and for leading the faculty in the development of research, teaching, and public service. The department head holds the rank of professor and is elected by the faculty as the dean of the College of Engineering. The appointment will commence on 21 August 1991. Salary is negotiable. Qualified applicants are invited to send a letter of interest to: Professor Stephen G. Bishop, Chair, Search Committee for the Head of the Department of Physics, University of Illinois, Engineering Hall, 1308 West Green Street, Urbana, IL 61801. Telephone: 217-333-3097. Résumés should be received before 21 November 1990 to receive full consideration, but the search will continue until the position is filled. The University of Illinois is an Affirmative Action/Equal Opportunity Employer.

CLINICAL BIOCHEMIST
A MANAGER is required for the Metabolic-Nutrition Laboratory, a specialized laboratory conducting essential urinary and plasma analysis, as having an important function conducting federally funded research. The manager will direct the technical and budgetary operations of the laboratory.

The ideal candidate should have a doctorate and some years of experience in metabolic research and service, have (or be eligible for) a California Medical Technologist's license, and be a certified biochemical or clinical chemist. The laboratory can offer a high salary and excellent benefits.

Interested individuals can discuss the position with Dr. Judith A. McGowan at 415-428-3604. Application forms can be obtained by writing to: Human Resources, Children's Hospital Oakland, 747 52nd Street, Oakland, CA 94609. Equal Opportunity Employer.

YOUR PERSONNEL PLACEMENT AID
in line classified columns
can be hot for higher visibility. Call SCIENCE at 202-326-6655 for details.

DIRECTOR, COLLEGE OF SCIENCES
AND HUMANITIES
BASIC SCIENCES, HUMANITIES, AND MUNCIE, INDIANA
Ball State University invites nominations and applications for dean of the College of Sciences and Humanities. The dean is the chief academic and administrative officer of the university's largest college. The dean plans, directs, and coordinates the activities, facilities, and budgets of the faculty and program areas in his college. The dean is responsible for the effective development and direction of the college's administrative, academic, and budgetary activities in the areas of research, student learning, and student activities. The dean is responsible for developing and implementing a comprehensive plan of program development and academic renewal. The dean is responsible for budgeting, finance, contracts, and development in the college. The dean is responsible for developing and implementing plans for curriculum, academic program, and research activities.

Candidates must have a PhD, or equivalent in an appropriate discipline, and must have demonstrated success in higher education academic administration and teaching, especially at the university level. Experience in academic and administrative positions in higher education is required. Experience in budgeting, financial planning and management, and student retention is preferred. The dean should have strong interpersonal skills and the ability to work effectively with a diverse group of faculty, staff, and students. A commitment to and a track record of successful accomplishment in the areas of diversity and inclusion is essential.

Applications should include a curriculum vitae, a statement of goals and philosophy, a general letter of application, and three letters of reference. Applications should be sent to: Professor H. H. Stidley, Search Committee Chair, College of Sciences and Humanities, Ball State University, Muncie, Indiana 47306. Applications are currently being accepted and will be considered until the position is filled. Salary: Commensurate with experience.

The University of Washington invites applications for the position of DIRECTOR, of the Institute for Environmental Studies (IES), one of the world's leading centers for environmental research. The Institute is a unique, interdisciplinary environment with strong academic, research and policy commitments, and an extensive history of collaboration and coordination to meet a major research agenda. The Institute is now planning to significantly expand its research and graduate education programs in environmental science and other related fields, and to strengthen community outreach. It is seeking a strong leader who can plan and implement the expansion, and who can work collaboratively and effectively with faculty and staff across the university.

The Institute's current director, Professor Lewis Binford, will retire on December 31, 1991. The appointment is for a five-year term, renewable, commencing January 1, 1992. The successful candidate will be expected to develop and maintain strong independent research in the field of environmental science and to participate in the growth of the Institute. The Institute is one of the leading educational institutions in the nation and its leadership will play a major role in the decision-making of the university as a whole.

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

EPA Environmental Research Laboratory (ERL), Corvallis, Oregon, ERL-Corvallis will be recruiting for the position of PHYSICIST, TEAM LEADER for the team managing the Laboratory budget. The position involves directing a team of scientists evaluating terrestrial biogeochemical processes impacted by air pollution. Understanding the feedbacks between the terrestrial biosphere and climate change factors will be the major research emphasis of the team at the new 150 person G.M.-14 level ($50,342 to $65,444). Candidate must be a U.S. citizen. For more information and to receive application forms when available, call: phone: 503-757-4634. The U.S. ERL is an Equal Opportunity Employer.

WAVER FABRICATION PLANT MANAGER.
Manager start-up of 25,000-square-foot wafer fabrication plant; prepare detailed start-up and device operation plans; manage manufacturing operations, training, and control, including equipment and fabricate wafers using innovative microtechnology generation. Ph.D. or equivalent in applied chemistry or material science. 5 years of experience in job offer or 5 years of senior management experience in semiconductor manufacturing/enginering in MOS or CMOS technologies. Senior management experience must include engineering start-up of high-volume wafer fabrication plant. Research and development, fast cycle times and high line and die yields, management, and budgeting. Design, fabrication and implementation of test structures. Requires research experience in development of silicon MOS processes and integration. The company supports a drug-free workplace and requires that all offers of employment be contingent on satisfactory pre-employment drug tests. Salary: $6600 per month; 40 hours per week. Place of employment and interview: Rio Rancho, New Mexico. If offered employment, will accept legal resident status and will send with résumé to: Job Order No. 334095, New Mexico Department of Labor, cc, 1001, 501 Mountain Road, NE, Albuquerque, NM 87108. This company is an Equal Opportunity Employer and fully supports Affirmative Action practices.

FACULTY POSITIONS IN STRUCTURAL BIOLOGY
Tenure-track faculty positions at the level of ASSISTANT OR ASSOCIATE PROFESSOR are open in the Department of Biochemistry at the University of Texas Southwestern Medical Center at Dallas. Applicants must have a Ph.D. or M.D. degree and postdoctoral training. Positions must show evidence of commitment to a career in independent research. We are particularly interested in applicants who plan to apply modern experimental and/or computational approaches to problems in structural biology. Send curriculum vitae, list of three referees, and a brief description of proposed research to: Dr. Keith K. Ryan, Associate Professor, Department of Biochemistry, University of Texas Southwestern Medical Institute Laboratories, University of Texas Southwestern Medical Center at Dallas, 5323 Harry Hines Boulevard, Dallas, TX 75325-9050. An Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION IN MICROBIOLOGY AND IMMUNOLOGY
The Department of Microbiology and Immunology, University of Health Sciences/The Chicago Medical School, invites applications for tenure-track faculty positions. Applications are due October 30, 1990. The appointees will have a Ph.D. and/or M.D. degree with solid training, research experiences, and interests in medical virology, molecular biology, or immunogenetics. The successful candidate will be expected to develop and maintain strong independent research in the field of medical virology and to participate in teaching medical students. The department is an independent, but affiliated institution, and has a long-standing commitment to the advancement of basic research in the areas of molecular biology and immunology. The salary will be commensurate with qualifications and experience. A suitable start-up package will be available. Interested applicants should send curriculum vitae, a brief outline of current and future research plans, and the names of three references to: Yooh Bien Kim, M.D., Ph.D., Chairman and Professor, Department of Microbiology and Immunology, University of Health Sciences/The Chicago Medical School, 3333 Green Bay Road, North Chicago, IL 60064. An Affirmative Action/Equal Opportunity Employer.
EMORY UNIVERSITY
Vice President for Arts and Sciences and Dean of Emory College

Emory University invites applications and nominations for the position of Vice President for Arts and Sciences and Dean of the College. The Dean is responsible for providing educational leadership and helping to focus intellectual vision within the College, for planning and overseeing the development of programs in the Arts and Sciences, and for the administration of the College, including appointments and budget.

The College currently enrolls approximately 4300 students. It is one of eleven schools and divisions within the University. Approximately 350 FTE faculty teach in a total of 28 departments and several interdisciplinary bachelor’s degree programs, as well as in the Graduate School of Arts and Sciences.

Candidates must have a record of teaching and scholarship commensurate with appointment to the rank of professor. Evidence of administrative interest and aptitude is required, as is commitment to rigorous liberal arts education. Applicants should submit a letter detailing their interest and pertinent experience, including some statement of views concerning educational leadership, together with a current curriculum vitae and a list of recent references. Applications and letters of nominations should be sent to Professor Frank Manley, Chair, College Dean Search Committee, Office of the Provost, Emory University, 404 Administration Building, Atlanta, GA 30322. The search committee will begin reviewing dossiers November 1 with a view to making the decision by mid-March.

Applications from women and from minority candidates are encouraged. Emory is an Affirmative Action, Equal Opportunity Employer.
OPPORTUNITIES IN
BIOTECHNOLOGY

The Research Division of W.R. Grace & Co., a Fortune 100 company and the world’s largest specialty chemical company has exceptional opportunities in its Biotechnology Research Programs.

Product Recovery
This position requires an MS or Ph.D. Engineer specializing in downstream product recovery. Your responsibilities will include the design and evaluation of microporous/ultrafiltered systems and recovery processes for mammalian cell products, experience with ultrafilters/microfilters is key. Fermentation experience is preferred. Experience with mammalian cells a plus.

(Department 1029)

Molecular Biology/Genetics
We are seeking a talented scientist to conduct research in the application of: a) molecular cloning and gene expression for the production of therapeutic or catalytic protein in mammalian and microbial systems, and b) DNA fingerprinting and genotyping for the generation and management of databases relating to animal identification and marker-assisted selection programs. This position requires a Ph.D., or equivalent experience and training in molecular biology or related area.

(Department 1030)

Grace offers an attractive salary, an excellent benefits program and a rewarding, growth-oriented career. We actively encourage the publication of technical papers. The Washington Research Center is located midway between Baltimore and Washington, DC in the picturesque community of Columbia, Maryland.

Please send your resume in confidence, including the appropriate department code to: Manager, Employment, W.R. Grace & Co.-Conn., Washington Research Center, 7379 Route 32, Columbia, MD 21044. Equal Opportunity Employer M/F/H/V.

GRACE

STAFF SCIENTISTS -
PHARMACOLOGY/
NEUROPHARMACOLOGY

REGENERON PHARMACEUTICALS, a company dedicated to developing therapeutic agents for degenerative and traumatic neurological diseases, is seeking to apply recent advances in the understanding of neuronal growth and regeneration.

REGENERON offers an exciting, collegial environment in which state-of-the-art molecular skills are brought to bear on outstanding problems in neurobiology and medicine. Key projects focus on the discovery, purification and molecular cloning of novel neurotrophic growth factors, and on the assessment of their biological roles as well as therapeutic potentials using innovative cell culture methods and animal models.

Openings in Pharmacology require a Ph.D. in Pharmacology or related discipline and a minimum of four years’ post-doctoral experience in the absorption, distribution and metabolism of drugs (preferably polypeptides and proteins). Previous experience in pharmacokinetic modeling, knowledge of protein and peptide separation techniques, and delivery of drugs to the CNS are essential. Previous industrial experience is highly desirable.

REGENERON’s modern facility is located on a 275-acre wooded campus in Westchester County, 20 miles north of Manhattan, near major universities and medical centers. We offer excellent compensation packages, including generous stock options. Suburban Westchester features attractive and affordable housing, outstanding public schools and recreational facilities along with ready access to the culture and business centers of New York City.

Please forward your resume, in confidence to: Ms. Carol Deaken, REGENERON PHARMACEUTICALS, INC. 777 Old Saw Mill River Road Tarrytown, NY 10591-6706 Equal opportunity employer.

REGENERON
Pharmaceuticals, Inc.
CARDOVASCULAR DISEASE

COR Therapeutics, Inc. is a rapidly growing biotechnology company located in the San Francisco Bay Area. The company specializes in the development of novel therapeutics for the treatment of various aspects of atherosclerosis-induced cardiovascular disease. COR is actively recruiting highly qualified individuals with proven track records to join existing multidisciplinary research teams.

Senior Scientist
COR is seeking an individual to lead a broad group effort responsible for developing inhibitors of restenosis due to vascular cell proliferation. Relevant cardiovascular research experience and team leadership skills are required. Five or more years' experience in the biotechnology or pharmaceutical industry is desired.

Scientists
Two openings are available for developing cellular adhesion antagonists useful for the treatment of platelet thrombosis and of reperfusion injury. Successful post-doctoral experience in molecular biology, cell biology or protein chemistry is required.

Research Associates
Two openings are available: One requires experience in protein purification and characterization; the other requires previous experience in molecular biology with emphasis on mutagenesis and protein expression.

Postdoctoral Fellows
These two-year positions have as their objective the understanding of basic cellular mechanisms. Three positions are available: Two involve the molecular biology of platelet membrane glycoproteins; the third focuses on identification and characterization of novel receptors mediating leukocyte adhesions.

COR Therapeutics, Inc. offers competitive salaries, benefits and attractive equity positions to its employees combined with the challenge and opportunity to make significant contributions. To apply, please send curriculum vitae to COR Therapeutics, Inc., Human Resources, 256 East Grand Avenue, Suite 80, South San Francisco, CA 94080. COR is an equal opportunity employer.
The School of Public and Environmental Affairs, Indiana University (Bloomington Campus), invites applications for two tenure-track FACULTY POSITIONS. ENVIRONMENTAL SCIENTIST/ENGINEER: Research specialization open; preference to candidates with hazardous waste, combustion engineering, or atmospheres experience. FACULTY POSITIONS: Research specialization open; preference to candidates interested in the impact of policy on the environment. Salary will continue until suitable candidates have been selected; applicants should send curriculum vitae before 1 January 1991 to: John L. Mitchell, Associate Dean for Academic Affairs, School of Public and Environmental Affairs, Indiana University, Bloomington, IN 47405. An Equal Opportunity/Affirmative Action Educator, Employer, and Contractor, M/F.

CELL/MOLECULAR PHYSIOLOGIST THE UNIVERSITY OF CHICAGO

The Committee on Cell Physiology invites applications for a FACULTY APPOINTMENT for qualified candidates in the area of cellular and molecular physiology. Candidates with research interests in the areas of membrane receptors, signal transduction and second messenger mechanisms, membrane transport, cell cycle control, or other aspects of cellular regulation will be considered. Those individuals utilizing molecular approaches are particularly encouraged to apply. The successful candidate will have a laboratory site in the Department of Pharmacological and Physiological Sciences. Applicants should provide a brief statement of research interests and plans, curriculum vitae and bibliography, and the names of three individuals who are willing to write letters of recommendation to: Dr. Mitchell Villareal, Chairman Cell Physiology Committee 947 East 59th Street The University of Chicago Chicago, IL 60637

The University of Chicago is an Equal Opportunity Employer.

FACULTY POSITION, MEMBRANE BIOLOGIST: The Department of Biological Sciences at the University of South Carolina is seeking to fill a tenure-track faculty position in membrane biology. Emphasis is on modern molecular, cellular, and physical chemical approaches to studying the structure and function of cellular membranes and their roles in differentiation, cell-cell interactions, and signal transduction. Facilities are expected to develop an active, externally funded research program, and to participate in the department's teaching activities. A wide range of biotechnical opportunities exists within the university, and are available to the applicant and are strongly encouraged. Applicants should have a Ph.D., postdoctoral research experience and a demonstrated potential for creative research that would be expected to yield competitive grants. One or more faculty positions may be available. For submission information, see below. Applications must be received by 1 December 1990 to receive consider-
Macromolecular NMR Spectroscopist

The Physical and Analytical Chemistry Research Group of Upjohn Laboratories has an opening for an NMR spectroscopist. Applicants should have a Ph.D. in Chemistry, Biochemistry or related field, preferably with post-doctoral experience, and the ability to apply modern NMR techniques (2-D and 3-D) for the structure elucidation of macromolecules. Experience in molecular computational methods is desirable. This scientist will characterize both the structure of proteins that are targets for therapeutic intervention and the complexes of these proteins with substrate analogs and inhibitors. Also will assist in the development of heteronuclear multidimensional spectroscopy. The successful candidate will join an NMR team that is equipped with an AMX-600, AM-500 and SGI workstations, and will collaborate closely with biological, synthetic and computational chemists on a range of projects.

In addition to an opportunity for career growth, we offer a competitive salary and benefits package commensurate with experience and expected contribution. Our research facilities are located in Kalamazoo, a Michigan community midway between Chicago and Detroit offering an excellent mix of cultural and recreational opportunities. For confidential consideration please submit your curriculum vitae to The Upjohn Company, Corporate Recruiting/Code 5708-HA, 7000 Portage Road, Kalamazoo, MI 49009-0199. Refer to Job Code 5708-HA in your cover letter. An Equal Opportunity Employer M/F.

Our Commitment To Scientific Excellence Continues...

Senior Research Scientist - Ph.D.
Molecular Biology

This research position requires an independent person with leadership qualities to take charge of a new molecular biology laboratory. The scientist will conduct and supervise research leading to novel and improved antibodies for imaging and treatment of cancers in patients. A Ph.D. with 3-5 years experience in molecular biology required; previous supervisory experience is a plus. Direct experience in designing and optimizing mammalian and procaryotic expression systems. PCR amplification, site-directed mutagenesis, sequencing, and cloning are desired. A working understanding of immunoglobulin genes and immunology is preferred, but not required. You will have an opportunity to make a significant impact on the company's future.

CYTOGEN Corporation is a leading biopharmaceutical company with a strong commitment to research and development. Our emphasis is on the commercialization of products for the improved diagnosis and treatment of cancer and cardiovascular disease. We are located in the Research Corridor of Princeton and Rutgers Universities, in an attractive suburban area 45 minutes from New York and Philadelphia. We offer competitive salaries and benefits. Please send resume to: Employment Manager, CYTOGEN CORPORATION, 600 College Road East, Princeton Forrestal Center, Princeton, New Jersey 08540. Equal opportunity employer m/f.

Innovative Technology Targeted to Medical Needs
POSITIONS OPEN

FACULTY POSITION
DEPARTMENT OF BIOCHEMISTRY
STANFORD UNIVERSITY
SCHOOL OF MEDICINE

Application or nominations are invited for a faculty position in the Department of Biochemistry at the level of ASSISTANT PROFESSOR. Applicants should have an established record of excellence in original research and in teaching. Candidates should submit curriculum vitae including a list of publications, a description of their research interests, and names, addresses, and telephone numbers of three references to: Search Committee Chairman, Department of Biochemistry, Stanford University School of Medicine, Stanford, CA 94305-3207.

Stanford University is committed to increasing representation of women and members of minority groups on its faculty and particularly encourages applications from such candidates.

ANATOMY/EMBRYOLOGY
FACULTY POSITION
Pennsylvania State University
Spring 1991

The Department of Biology at Pennsylvania State University is recruiting a lecturer to teach comparative anatomy, mammalian anatomy, and embryology at the University Park Campus. This is a non-tenure-track, full-time position subject to yearly renewal. Active research is not required in this position, but research arrangements are negotiable. The salary will be commensurate with experience (up to the ASSISTANT PROFESSOR level) and a Ph.D. is desired. Candidates should send curriculum vitae including the names and telephone numbers of three references to: Professor L. Masson, Head, Department of Biology, Box B1, 208 Mueller Laboratory, Pennsylvania State University, University Park, PA 16802. Contact Ms. D. Snyder for a complete job description at 814-864-4562. Applications received by 30 October 1990 will be assured of consideration. However, applications will be considered until the position is filled. An Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

BIOLOGY
Ball State University
Muncie, Indiana

Tenure-track position in the Department of Biology, available fall 1991, for an ENTRY-LEVEL individual with primary interest in developmental biology. Candidates will be expected to convey biological principles to departmental majors, preprofessionals, and honors and graduate students in specialty areas. Responsibilities: to teach courses in developmental biology, comparative vertebrate anatomy, introductory biology and possibly genetics; to conduct research in specialty area and promote that research in the department; and to be an active member of the academic community. Minimum qualifications: earned doctorate in a biological science by 21 August 1991. Preference will be given to applicants with teaching ability, publication or documented scholarly activity. Submit résumé, documentation of scholarly activity (e.g., reprints of publications or creative scholarly activities), three letters of reference, and transscripts to:

Dr. Anne Cartwright
Search and Selection Committee
Biology Department
Ball State University
Muncie, IN 47306

Phone: 317-285-8820

Review of applications will begin 25 October 1990 and continue until the position is filled.

Ball State University practices Equal Opportunity in education and employment.

The Delaware Museum of Natural History invites applications for an ASSISTANT CURATOR IN MALACOLOGY. This is a full-time, 12-month position with departmental administration, conduction of collection-oriented research on molluscan systematics, participation in collection management, and the museum's public programs. Applicants must have a doctorate or equivalent experience. Curatorial experience desired. Position available immediately. Send résumé, names of three references, and three short statements of professional goals to: Dr. John Rothfield, Search Committee, Delaware Museum of Natural History, P.O. Box 3957, Wilmington, DE 19897. Applications will be accepted until 30 November 1990.

POSITIONS OPEN

FACULTY POSITIONS
Cognitive/Experimental Psychology
University of California, Irvine

The Cognitive Science Department at the University of California, Irvine, invites applications for four tenure-track positions, all with potential starting dates of 1 July 1991. One ASSISTANT PROFESSOR position is available at the higher rank of TENURE-TRACK ASSISTANT PROFESSOR. Candidates for either position should have an established record of excellence in research and teaching in the areas of learning and memory, decision-making, perception, and artificial intelligence. Applicants should have a Ph.D. and a strong record of accomplishment. Applications will begin accepting nominations and applications of interest in these areas. Applications are encouraged. Applications are invited for all positions and are due by 15 January 1991. UCI is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

FACULTY POSITION
IN CELL AND MOLECULAR BIOLOGY
UNIVERSITY OF CONNECTICUT
ORTH CENTER

Health Center

The Department of Microbiology is seeking to fill a tenure-track position at the ASSISTANT PROFESSOR level. Candidates whose research involves the application of genetic, biochemical, and molecular techniques to fundamental problems of cellular, molecular, or developmental biology are encouraged to apply. Areas of interest include but are not limited to: cell division, differentiation and development, signal transduction, and nucleic acid and protein interactions. Knowledge of genetics or protein-structure/function would be especially desirable. Applicants should have at least 2 years of postdoctoral experience, but the ability to develop a high-quality research program and to teach effectively at the graduate level in the Program for Molecular Biology and Biochemistry. Application should include complete curriculum vitae including description of research experience and future research plans, copies of the candidate's most significant publications, and names of at least three references. Send application to: Dr. L. Rothfield, Search Committee, Department of Microbiology, University of Connecticut Health Center, Farmington, CT 06030. An Affirmative Action/Equal Opportunity Employer.

EMORY UNIVERSITY
FACULTY POSITIONS
IN DEVELOPMENTAL BIOLOGY

As part of a major expansion, the Department of Biology will make several tenure-track appointments in developmental biology. Presently, available positions are at the ASSISTANT PROFESSOR level, although an appointment at the more senior level is considered in exceptional circumstances. The area of research should encompass the study of mechanisms relevant to differentiation and morphogenesis, and provide evidence that they will develop a strong, independent research program and that they possess a broad knowledge of developmental biology. Applications from minority and female candidates are strongly encouraged. Successful candidates will develop a laboratory in the newly constructed O. Wayne Rollins Research Center and will be provided with competitive start-up funds. Please send curriculum vitae, reprints of publications, a statement of present and future research plans, and four letters of recommendation to: Dr. John Lucchesi, Chairman, Developmental Biology Search Committee, Department of Biology, O. Wayne Rollins Research Center, Emory University, Atlanta, GA 30322. To ensure full consideration, applications should be received by 31 December 1990. Emory University is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITIONS

The Department of Biological Sciences at Clemson University is expanding and invites applications for three tenure-track positions:

- ELECTRON MICROSCOPIST (ASSOCIATE OR FULL PROFESSOR). To direct an interdepartmental facility presently equipped with scanning and transmission microscopes. The successful candidate will be expected to maintain a state-of-the-art facility used for biological and materials research and carry on an active research program in the area of electron microscopy. Experience in teaching and research is essential.

- EUKARYOTIC CELLULAR PHYSIOLOGIST (ASSISTANT PROFESSOR). Addressing membrane-related physiological and biochemical aspects of cell function and able to integrate cellular and molecular approaches. Postdoctoral experience is preferred.

- BEHAVIORAL ECOLOGIST (ASSISTANT PROFESSOR). Addressing either proximate or ultimate mechanisms of behavior.

Candidates for all three positions are expected to develop and maintain a strong, independent, externally funded research program; direct graduate students; and teach at the graduate and undergraduate level on topics of their expertise. Substantial space and start-up funds are available. Applicants should review the departmental website for a list of current faculty and courses, and the names and telephone numbers of three references to: Angela L. Crawford, Search Committee Coordinator, Department of Biological Sciences, Clemson University, Clemson, SC 29634. Applicants should be sent by 1 December 1990 in order to assure consideration.

Clemson University, the land-grant institution of South Carolina, is an Affirmative Action/Equal Opportunity Employer.

Nasa space life sciences training program
Graduate student level

Applications are being accepted for temporary STAFF POSITIONS (January through August 1991) at the Kennedy Space Center supporting development and implementation of life science laboratory projects to be included in an intensive summer educational program for 44 undergraduates. These staff positions offer on-the-job exposure to NASA's life science operations and research facilities. The ideal candidates are graduate students in biology, geology, chemistry, or related sciences. Equipment is available to train student personnel in biology, geology, chemistry, and biology. Students and graduate students will be supported in all aspects of the program. Applications are due by 15 August 1991.

The University of Texas at Austin invites applications for a position as a visiting assistant professor, with emphasis in environmental science, to begin in the Fall 1991. The position will involve teaching undergraduate and graduate students, as well as conducting research. Applicants should have a Ph.D. in environmental science or a closely related field and a strong commitment to teaching. Applications should be sent to: Dr. J. L. Reynolds, Department of Environmental Science, University of Texas, Austin, TX 78712. The University of Texas is an Affirmative Action/Equal Opportunity Employer.

The University of Texas at Austin invites applications for a position as a visiting assistant professor, with emphasis in environmental science, to begin in the Fall 1991. The position will involve teaching undergraduate and graduate students, as well as conducting research. Applicants should have a Ph.D. in environmental science or a closely related field and a strong commitment to teaching. Applications should be sent to: Dr. J. L. Reynolds, Department of Environmental Science, University of Texas, Austin, TX 78712. The University of Texas is an Affirmative Action/Equal Opportunity Employer.

SCIENCE, VOL. 250
When you join Lilly, the future of her health may well be in your hands.

For over 100 years, Eli Lilly and Company has been manufacturing pharmaceuticals to ensure brighter futures for everyone. Today, that commitment continues worldwide with the discovery, development, manufacturing, and marketing of the highest quality pharmaceutical, medical instrument and animal health products. With current annual investments of more than $600 million in research and development programs, our continued success requires the finest scientific talent available.

SENIOR NEUROPEPTIDE PHARMACOLOGIST
Lilly Research Laboratories

Over the past several years we have established an active effort, within our division of CNS, GI, and Urogenital Research, to discover new drugs acting through neuropeptide receptors. Our biologists and chemists have been collaborating on several targets, including CCK, gastrin, substance P, and others, with an emphasis on non-peptide molecules. We are seeking a talented and motivated Biochemical Pharmacologist, with significant background in neuropeptides, to help lead the further expansion of this program.

Candidates should have a Ph.D. and at least two years post-doctoral experience, with expertise in receptor pharmacology and in vitro functional assay systems such as second messengers or smooth muscle. Additional experience with in vivo methods such as neurochemistry is desirable.

The successful applicant will become a key member of our neuropeptide research team, with opportunities for professional growth and leadership in both the basic and directed aspects of this drug discovery program.

In addition to attractive salaries and benefits, Lilly provides excellent opportunities for continued growth through in-house seminars and off-site programs. Qualified applicants should submit a letter of application along with their CV, official transcripts, and names of three references to:

Christina C. Bodurow, Ph.D.
Ph.D. Recruitment
Corporate Recruitment
Eli Lilly and Company
Lilly Corporate Center
Indianapolis, IN 46285

Equal Opportunity Employer
POSTDOCTORAL POSITION. Available immediately to study olfactory transduction and coding using a combination of the patch clamp technique and measurement of intracellular Ca++ concentration in single cells using fluorescent indicators. Experience in electrophysiology and/or fluorescent dye techniques desired. My laboratory is training interdisciplinary groups studying the mechanisms of olfactory transduction using biochemical, molecular biological, and biophysical approaches. Send letter of interest, curriculum vitae and names of three references to: Diego Restrepo, Ph.D., Monell Chemical Senses Center, 3500 Market Street, Philadelphia, PA 19104.

POSTDOCTORAL POSITION: Plant-Microbe Interactions. Available 1 November 1991. Position is in the laboratory of Dr. H. Strobel, Department of Biochemistry at the University of British Columbia. The position is dedicated to the role of lipopolysaccharide in the development of nitrogen-fixing symbioses between Rhizobium bacteria and their legume hosts. Send curriculum vitae and names of three references to: Dr. Dale Noel, Biology Department, Marquette University, Milwaukee, WI 53233. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION. Available immediately in the Department of Biochemistry and Biophysics, University of California, San Francisco, for a molecular geneticist who will study the structure, function, and biosynthesis of bacterial enzymes with covalently bound flavin and quinone prosthetic groups. Experience with recombinant DNA techniques and protein biochemistry and experience with protein purification would be helpful. Send curriculum vitae and references to: Dr. W. S. McIntire, Department of Veterinary Science, University of California, Davis, Division (151-S), 4150 Clement Street, San Francisco, CA 94121.

MOLECULAR PATHOGENESIS

POSTDOCTORAL POSITIONS available to study the regulation of Salmonella-macrophage interactions and/or the molecular basis of bacterial resistance to chemotherapy. Experience in molecular biology, protein biochemistry, or cell biology is required. Candidates should send curriculum vitae and names of three references to: Dr. Eduardo A. Grossman, Washington University School of Medicine, Department of Molecular Microbiology, Box 8230, 660 South Euclid Avenue, St. Louis, MO 63110-1093. An Affective Action/Equal Opportunity Employer, M/F.

POSTDOCTORAL ASSOCIATE IN NEUROBIOLOGY

Postdoctoral position available in laboratory investigating the role of innervation in the regulation of neuronal nicotinic acetylcholine receptor gene expression in chick parasympathetic neurons. Experience with molecular biological techniques required. Please send curriculum vitae, a statement of research experience and interests, and names of three references to: Dr. Michele Jacob, c/o Personnel Office, Worcester Foundation for Experimental Biology, 222 Maple Avenue, Shrewsbury, MA 01545. An Equal Opportunity/Affirmative Action Employer, M/F/H.

Several PRE- AND POSTDOCTORAL POSITIONS are available in the molecular aspects of plants, microorganisms, and their interactions; molecular neurobiology; x-ray crystallography; and protein structure analysis. Send applications to: Director, Ohio State Biotechnology Center, Columbus, Ohio 43210. The Ohio State University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION IN MICROBIOLOGY/BIOCHEMISTRY. Available to study bacterial degradation of organic pollutants found in ground water. Experience in growth and culture techniques, and molecular biological techniques. Experience in the use of strains able to degrade substituted aromatic compounds. Background in microbial physiology, molecular biology, and environmental toxicology is desirable. Send letter of interest, curriculum vitae and names and phone numbers of three references to: Dr. G. S. Mahaffee, Department of Environmental Science/Engineering Education Division, Oak Ridge Associated Universities, P.O. Box 117, Oak Ridge, TN 37831-0117. Telephone: 615-576-3456.

POSTDOCTORAL POSITION. A position is immediately available to study the molecular biology regulation of glycoprotein biosynthesis in Escherichia coli. Experience in molecular biology is preferred. Send curriculum vitae and names of three references to: Tony Romeo, Ph.D., Department of Microbiology and Immunology Texas College of Osteopathic Medicine/ University of North Texas 3500 Camp Bowie Boulevard Fort Worth, Telephone: 817-735-2121 FAX: 817-735-2123

Two POSTDOCTORAL POSITIONS available immediately to apply yeast artificial chromosome (YAC) technology to the characterization of human telomeres [Rittenberg et al., PNAS 86, 6240-6244 (1989)] and to the study of chromosome breakpoint regions associated with human diseases. Excellent opportunity to learn YAC cloning in characterization techniques in a cancer research environment. Send or telefax curriculum vitae and two letters of reference to: Harold Richman, Department of Human Genetics, University of Michigan, 1301 W. Medical Center Drive, Ann Arbor, MI 48109-0494. FAX: 313-764-2376.

POSTDOCTORAL TRAINING PROGRAM in MOLECULAR AND CELLULAR IMMUNOLOGY. Areas of research include but are not limited to: myeloid cell surface receptor and subunit structure, function, and regulation in normal and tumor cells, protein and lipid membrane receptors, viral and bacterial cell surface antigens and receptors, immunoglobulin structure and function, oncogene expression in normal and neoplastic cells, and interactions of immune and endocrine systems. Position available immediately. Send curriculum vitae and names of three references to: Dr. V. R. Good, Laboratory of Cellular and Molecular Immunology, National Institutes of Health, Building 8, Room 9B30, Bethesda, MD 20892. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL TRAINING PROGRAM IN NEUROBIOLOGY, Columbia University. Emphasis is placed on the analysis of the cellular mechanisms underlying the basic basis of neural development, behavior, and behavioral plasticity. Training facility include: Richard Axel, Craig Saffier, Benjamin A. Caspary, Claude Ghez, Daniel Goldberg, James Goldman, Lloyd Greene, Mary E. Hatter, Robert Hawkins, Thomas Jessel, Erich Kandel, John Koester, Irving Kupfermann, Robert Langer, Ami MacNeil, John Martin, Frederick R. Maxfield, John E. Pintar, Steve Rayport, Lorna Role, Taube Rothman, Samuel Schacher, Susan Schuman, Nathan Sperling, Maggie Steen, Steven Siegelbaum, and Gary Struhl. Applicants for this NIH-sponsored program must have the M.D., Ph.D., or equivalent degree. Please send letter describing research interests, and three letters of reference to: Admissions Committee, Postdoctoral Training Program in Neurobiology, Rockefeller University, 1230 York Avenue, New York, NY 10021. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL TRAINING PROGRAM IN MOLECULAR AND CELLULAR BIOLOGY, University of Wisconsin-Madison. Applications are invited for the position of postdoctoral research associate in the field of animal developmental biology. The program is designed to prepare the candidate for an independent position in research. Candidates must have a Ph.D. and a strong background in molecular and cellular biology. Strong computer skills are desirable. Send curriculum vitae and three letters of recommendation to: Dr. R. T. Gilbert, Department of Molecular, Cellular, and Developmental Biology, University of Wisconsin-Madison, 4211 North Drumm Street, Madison, WI 53705. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL TRAINING PROGRAM IN NEUROBIOLOGY, University of Wisconsin-Madison. Applications are invited for the position of postdoctoral research associate in the field of animal developmental biology. The program is designed to prepare the candidate for an independent position in research. Candidates must have a Ph.D. and a strong background in molecular and cellular biology. Strong computer skills are desirable. Send curriculum vitae and three letters of recommendation to: Dr. R. T. Gilbert, Department of Molecular, Cellular, and Developmental Biology, University of Wisconsin-Madison, 4211 North Drumm Street, Madison, WI 53705. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL TRAINING PROGRAM IN NEUROBIOLOGY, University of Wisconsin-Madison. Applications are invited for the position of postdoctoral research associate in the field of animal developmental biology. The program is designed to prepare the candidate for an independent position in research. Candidates must have a Ph.D. and a strong background in molecular and cellular biology. Strong computer skills are desirable. Send curriculum vitae and three letters of recommendation to: Dr. R. T. Gilbert, Department of Molecular, Cellular, and Developmental Biology, University of Wisconsin-Madison, 4211 North Drumm Street, Madison, WI 53705. An Equal Opportunity/Affirmative Action Employer.
ROCKEFELLER FOUNDATION
BIOTECHNOLOGY CAREER FELLOWSHIPS

The Rockefeller Foundation announces a program of career development fellowships designed to enable scientists from developing countries, trained at outstanding centers for advanced research in biotechnology, to continue to work at those or other institutions for three months each year, over a period of at least three years, conducting advanced research and keeping abreast of new developments in their fields. The program will focus upon the development and application of advances in molecular and cellular biology and immunology relevant to agriculture, health, and reproductive biology.

Funding will be shared between the Foundation and the host laboratory, with the Foundation providing travel and per diem support. It is hoped that the fellowships will encourage the establishment of ongoing working relationships between outstanding younger scientists working at third world institutions, and research teams at advanced laboratories.

Applicants to this program should have at least Ph.D.- or M.D.-level training, a proven record of scientific productivity, and a permanent position at a research or teaching institution in their home country. A written project proposal must be developed and submitted jointly by the candidate and the laboratory sponsor.

Information about application procedures can be obtained by writing to Biotechnology Career Fellowships, Fellowship Office, Rockefeller Foundation, 1133 Avenue of the Americas, New York, New York 10036, USA.

For more than a century the employees of Burroughs Wellcome Co. have applied their talents to the discovery and development of important new medicines. Their abilities and initiative have brought our company preeminence in both the pharmaceutical industry and the scientific world...as our 1988 Nobel Prize winners give eloquent testimony.

GREAT PEOPLE MAKE A GREAT COMPANY

POSTDOCTORAL FELLOW
Drug Regulatory Affairs

Postdoctoral Fellows are initially appointed for up to 52 weeks with a renewal for a second year under the mutual agreement of the employees and Burroughs Wellcome Co.

The Clinical/Preclinical Fellow will prepare FDA submissions and will act as liaison between the FDA and Drug Regulatory Affairs.

Candidates need a Ph.D. in pharmacology or similar area (biochemistry), OR Master's degree in pharmacology, OR a Pharm.D. Other factors that would be a plus are clinical or preclinical research experience, especially in clinical pharmacology; technical writing experience; and PC skills.

Burroughs Wellcome Co. offers top benefit programs along with very competitive salaries. If you are interested in working for us, submit your resume, indicating position number in your cover letter, by October 26, 1990, to Burroughs Wellcome Co., P.O. Box 230061, 3030 Cumnor Hills Road, Research Triangle Park, NC 27709.

For information on other job opportunities with Burroughs Wellcome Co., call our Job Information Line at (919)373-8347 in Research Triangle Park, NC or (919)343-2997 in Greenville, NC.

An Equal Opportunity Employer

We'll Help You Build
A New Lab

Let the free Science product information service put you in touch with the vendors whose products you will need.

Simply write us a letter stating the specifics about your proposed lab and the instruments and supplies you need. We will do the rest. Write to:

SCIENCE Magazine
New Lab Service Department
1515 Broadway
New York, NY 10036

The Hippie Cancer Research Center, an innovative research leader in the examination of the molecular and genetic nature of cancer, has immediate Postdoctoral opportunities in three areas:

Blood Cell Growth Factors: to purify and characterize megakayocyte colony-stimulating factor (Meg-CSF) and other novel hematopoietic colony-stimulating factors. Candidates should be cell or molecular biologists, glycoprotein biochemists, or experimental hematologists with experience in protein purification and/or in vitro hematopoietic cell cloning.

Pharmacology/Toxicology: to develop and apply novel in vitro systems for pharmacologic and toxicologic evaluations of new antineoplastic and anti-HIV drugs. Candidates should be pharmacologists, toxicologists, cell biologists or biochemists with experience in cell culture and bioassays.

Biological Response Modifiers: to study interferon receptors and interferon-mediated regulation of cellular gene expression and the underlying biochemical mechanisms. Candidates should be biochemists or molecular biologists with some experience in working with nuclear acids and recombinant DNA techniques.

A member of the Association of American Cancer Institutes, the Hippie Cancer Research Center has four well-funded research divisions supported by NCI peer-reviewed grants and contracts. The Cancer Center provides competitive salaries and benefit packages. Candidates should submit curriculum vitae, statement of research interests and goals, and the names of three references to:

Hipple Cancer Research Center
4100 South Kettering Boulevard
Dayton, Ohio 45439-2092.

An Equal Opportunity, Affirmative Action Employer, the Hippie Cancer Research Center offers a smoke-free environment.
POSITIONS OPEN

POSTDOCTORAL POSITION IN REPRODUCTIVE NEUROENDOCRINOLOGY

Available 1 February 1991 to identify the neurotransmitters utilized by gonadotropins and to study the neurotransmitter response to steroid hormone action in monkey hypothalamus and midbrain as related to the regulation of prolactin secretion. Experience with ICC and in situ hybridization techniques is essential. Excellent salary and benefits. Send curriculum vitae and names of three references to: Dr. Cynthia L. Bethia, Division of Reproductive Biology and Behavior, Oregon Regional Primate Research Center, Beaverton, OR 97006. An Equal Opportunity/Affirmative Action Employer.

MOLECULAR ENDOCRINOLOGY. A POSTDOCTORAL POSITION (M.D. or Ph.D.) to study thyroid hormone action and c-erbA structure/function. The project involves analysis of the role of thyroid hormones and c-erbA proteins in cell growth and differentiation. Experience in molecular genetics, tissue culture, and/or protein biochemistry desired. Please send curriculum vitae, and names of three references to: Dr. James Reagan, Cell Biology and Molecular Biology, 40-cm with a 11/750 and Sun computer. Contact by 1 February 1991 for an Equal Opportunity/Affirmative Action Employer. Federal law requires proper documentation of identity and employment eligibility at time of application. This document will be requested at time of application and must be included with your application.

STANFORD UNIVERSITY

POSTDOCTORAL POSITIONS IN CELL AND MOLECULAR BIOLOGY OF MEMBRANES

Postdoctoral positions are available immediately in an interdepartmental program at Stanford University. Applications are solicited from individuals with the Ph.D. or M.D. degree in biochemistry or molecular biology. Current research areas and principal investigators include: protein and lipid traffic between the endoplasmic reticulum and the Golgi, vesicle transport mechanisms, (in vivo and in vitro) of such compounds. NIH funds that require applicants be U.S. citizens or permanent residents. Background in biophysics, biochemistry, and/or biology is preferred. Send curriculum vitae and names of references to: Dr. John Ackerson, Department of Cell Biology and Chemical Biology, 109 Biological Science Building, University of Missouri-Kansas City, Kansas City, MO 64110-2499. Equal Employment Opportunity Employer.

POSTDOCTORAL FELLOWSHIP. Available immediately to study the interactions of small hydrophobic molecules with membrane transport mechanisms. Position requires a knowledge of such compounds. NIH funds that require applicants be U.S. citizens or permanent residents. Background in biophysics, biochemistry, and/or biology is preferred. Send curriculum vitae and names of references to: Dr. Nadia Noy, Cornell University Medical College, F-231, 1300 York Avenue, New York, NY 10021.

POSTDOCTORAL FELLOWSHIPS IN THE DEPARTMENT OF ANATOMY AND NEUROBIOLOGY UNIVERSITY OF CALIFORNIA, IRVINE

Several positions for research in individual laboratories in the department are available for candidates who have demonstrated research promise at the predoctoral or postdoctoral level. The emphasis of research in the department is in the neurosciences with special expertise in developmental, neuroendocrine, neurochemical, and molecular neurobiology. The faculty of the department and their research interests are:

- Dr. Robert Blank: Eye movement control, physiology of upper airway.
- Dr. James Fallon: Chemical neurotransmitters, transmitter, and growth factors.
- Dr. Christiano Gall: Limbic/olfactory anatomy, neurotrophic factors, neural gene expression.
- Dr. Roland Gioli: Visionomotor system: structure/function relationships.
- Dr. Stewart H. Kelly: Primate visual system.
- Dr. Paul Jackson: Molecular neurobiology, neurotrophic factors.
- Dr. James Jones: Transmitter regulation in primates cerebrum.
- Dr. Glenn Kageyama: Oxidative metabolic development and plasticity.
- Dr. Leonard Kintz: Auditory system anatomy and physiology.
- Dr. W. Ian Lipton: Neuropathic viruses, viral vectors.
- Dr. Sandra Longhun: Monamines, peptides, and growth factors and their receptors.
- Dr. Diane O'Dowd: Function and regulation of ion channels in Drosophila.
- Dr. Charles Ribak: Epilepsy, neurotransmitters, and hippocampal circuits.
- Dr. Richard Robertson: Thalamocortical development.
- Dr. Malcolm Semple: Auditory processing.
- Dr. Martin Smith: Cellular and molecular aspects of spermatogenesis.
- Dr. John Swett: Spinal cord and peripheral nervous systems.
- Dr. Yasuhiro Toride: Peripheral nervous system and oculomotor control.

Applications or inquiries for additional positions should be sent to:

Dr. Edward Jones, Professor and Chairman Department of Anatomy and Neurobiology University of California, Irvine Med Surge II, Room 364 Irvine, CA 92717

An Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

POSTDOCTORAL POSITION

A postdoctoral position is available to study the role of two recently cloned helix-loop-helix proteins in leuke- matogenesis, and lymphohematopoietic differentiation. Retinoic-mediated gene transfer is being used to deliver genes into hematopoietic cells and also to identify novel, lineage-specific genes. Applicants should have a solid background in molecular biology and an interest in experimental hematology. Send curriculum vitae and the names and telephone numbers of three references to: Dr. Charles Beattie, Department of Medicine and Cell Biology, Room C53101, Medical Center North, Vanderbilt University Medical Center, Nashville, TN 37232. Vanderbilt is an Equal Opportunity Employer.

NIH POSTDOCTORAL FELLOWSHIPS. Available to study cell aging and mechanisms of senescence and age-related disease. Start dates prior to 1 January 1991 or after 1 May 1991. Send curriculum vitae and statement of research interests to: Linda Haletz, Professor, Department of Anatomy and Cell Biology, Wayne State University Medical School, 150 E. Canfield Avenue, Detroit, MI 48201. An Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIPS. Qualified applicants will be recruited for undertaking cellular and molecular studies on (i) the role of the seminiferous growth factor (SGF) in sex determination and development of the male reproductive system and (ii) the function of germ cell-specific, nuclear proteins during spermatogenesis and fertilization. Ph.D. and/or M.D. degree required. Send curriculum vitae, names of three references, and research interests to: Dr. Anthony B. Bovet, Department of Anatomy and Cell Biology, College of Physicians and Surgeons, Columbia University, 630 West 168th Street, New York, NY 10032. An Affirmative Action Employer.

POSTDOCTORAL INSTRUCTOR AND FELLOW. Investigates and conducts experimental studies in mouse bone marrow metastasis. Duties include bone destruction, spinal cord compression by cancer cells. Studies effect of bone marrow transplantation after total body irradiation. Uses biological research techniques including Southern, Northern, Western, Northern, tissue culture cell growth; and immunologic assays. Evaluates experimental drugs and treatment of metastasis in ani- mals. Positions open for 3 years of research experi- ence in field of metastasis, M.D. or Ph.D. in immunology or biological sciences. Five days, 40 hours per week. Salary: $30,000 to $35,000 per year, depending upon qualifications. Send résumé to: New York State Depart- ment of Labor, 140 West Main Street, Rochester, NY 14614, Attention: B. B. Herman.

FELLOWSHIPS FOR POSTDOCTORAL TRAINING. In neural development, plasticity, and regeneration at The Ohio State University. Systems, cellular, and molecular approaches are available for trainees supported by an NINDS training grant. Faculty include: Dr. R. K. Brey, M. Beattie, G. Boulant, J. R. Bresnahan, R. Burry, H. Cooke, R. Ho, L. Horrocks, J. King, D. Lim, G. Martin, N. Neff, N. Nordlander, R. Rogers, A. Rovner, B. Stoker, T. Tassava, S. Tijoe, J. Wood, and A. Yates. Fellows supported by the training grant must be U.S. citizens or permanent residents; however, other positions may be available which can be supported by funds available to individual investigators.

Applications, including curriculum vitae, statement of research interests, and three letters of recommendation, should be sent to: Drs. G. S. Beattie, and M. D. Beattie, Department of Cell Biology, Neurobiology and Anatomy, The Ohio State University, 333 West 10th Avenue, Columbus, OH 43210. Potential applicants are encouraged to contact the program directors and prospective faculty sponsors for detailed information.

Send applications to: Dr. Martin, 614-292-1667; Dr. Beattie, 614-292-1781.

RAY L. NUNNALLY, PH.D. Associate Professor and Director Biomedical Magnetic Resonance Center University of Texas Southwestern Medical Center 5401 Harry Hines Boulevard Dallas, TX 75235-8085 Telephone: 214-648-2834 An Equal Employment Institution.
**TAKE A CLOSER LOOK AT COLLAGEN R&D**

Collagen Corporation is expanding its R&D efforts in the area of novel biomaterials and medical devices. While Collagen is the leader in injectable collagen for soft tissue augmentation and repair, we are also taking our technology to new venues of medical relevance, including collagen ceramic composites for bone grafting, membranes for guided tissue regeneration, cartilage repair/replacement, and biocompatible materials to treat urology disorders. Also on the horizon are new ophthalmologic products and drug delivery vehicles.

To address these exciting R&D programs, we are seeking the following innovators to join our multidisciplinary team.

Successful candidates must possess a creative problem solving approach as well as excellent communication skills.

**Collagen Biochemist**
You'll play a key role in developing a variety of collagen-based materials for medical device application. In addition to a Ph.D. in Biochemistry, Biomaterials, or an applicable field, you'll need experience in fabricating biomaterials from collagen with a basic understanding of related physics and chemistry to include: formulation, chemical derivation, crosslinking, analytical characterization, biocompatibility, and stability.

**Biomaterials Engineer**
Contributing your specialized expertise, you will lead our multifaceted biomaterials development program and establish relevant animal models for evaluating collagen-based medical devices. Along with a Ph.D., D.V.M., or M.D., your credentials include strong biomechanical skills with a background in biomaterials, polymers, biology, anatomy, histology, and/or surgery. Current familiarity with relevant literature also required.

**Rheologist**
You will be directly involved in the physical and chemical characterization of in-process and final product streams, assay development and reduction to practice. Your experience characterizing collagen gels, suspensions and other formulations is supported by an M.S./Ph.D. in Rheology or Chemical Engineering.

**Polymer Chemist**
Working in the development of our Bioadhesive technology, you will modify composites of natural/synthetic compounds to formulate and synthesize biocompatible polymers. Experience in the synthesis and characterization of polymers/hydrogels is required as is an M.S./Ph.D. in polymer science, organic chemistry, or related field.

In addition to a professional association with one of the most highly rated R&D organizations in the country, you will enjoy an excellent salary and benefits package, which includes relocation assistance, stock purchase plans and merit rewards based on your performance. For consideration, please send your resume, indicating position of interest, to: Collagen Corporation, 2500 Faber Place, Dept. SLH, Palo Alto, CA 94303. We are an equal opportunity employer.

---

**Manager**

**Drug Metabolism Operations**

If pioneering vital pharmaceutical discoveries is what you have in mind, come to Schering-Plough Research.

Innovative research at Schering-Plough paves the way to exciting breakthroughs in medicines that save, enhance and prolong life. You can be directly involved in our R&D efforts, building on resources, talent and experience of a $3+ billion worldwide healthcare leader.

In this important role, you will direct a small staff and coordinate various core drug metabolism operations such as protocol preparation, critical review of research reports, as well as collaborative projects with other R&D divisions. This involves tracking timeliness of drug metabolism projects and integrating activities with contract research laboratories. A PhD in Chemistry, Biochemistry, Pharmacy, Pharmacology or a related discipline is essential, together with at least 10 years' post-doctoral supervisory experience in Drug Metabolism or Pharmacokinetics in the pharmaceutical industry.

You must have extensive knowledge and experience in pharmaceutical drug metabolism, superior oral and written communication skills, and expertise interacting effectively within an R&D environment.

We offer an excellent salary and benefits package. For immediate consideration, please send your resume to: Mr. R. Blackburn, Schering-Plough Research, P.O. Box DS-90-15, 60 Orange Street, Bloomfield, NJ 07003. We are an equal opportunity employer.

*What you have in mind, we put in action.*
Bristol-Myers Squibb Company, a leader in biotechnology and a major international manufacturer of pharmaceutical products, is expanding its Biotechnology and Biological Process Development Group, with a new protein recovery and purification facility, nearing completion in Syracuse, New York. The Biotechnology and Biological Process Development Group is responsible for full development of biologicals as therapeutics in support of clinical research and development of commercial processes. This environment provides unique opportunities for scientists, with diverse background, to work as a team on challenging projects which are at the cutting edge of biotechnology. We are seeking highly motivated, innovative professionals at the PhD and BS/MS levels in the following disciplines:

**Fermentation**

**Microbiologists/Biochemists**

Positions are open for BS/MS and PhD Microbiologists experienced in microbial and mammalian cell culture for production of biological proteins and enzymes. Seeking expertise in any of the following areas: long-term maintenance/preservation of cell lines; laboratory propagation of cell populations; operation of flask, roller bottle and small tank reactor; mutational selection and laboratory evaluation for antibiotic and enzyme fermentations.

**Analytical Biochemists**

Positions available for PhD and BS/MS Biochemist or Chemist to perform routine hplc, spectrophotometric and colorimetric assays on fermentation or cell culture broths. Experience with computers and robotic assays essential. Must effectively interact with other lab and pilot plant biotechnologists.

**Protein Chemists**

Positions are open for scientists with PhD (with postdoctoral experience) and BS/MS degrees in Protein Chemistry, Chemistry or Biochemistry with experience in purification and analysis of proteins. Responsibilities include developing purification processes suitable for pilot plant scale production of clinical quality therapeutic proteins. Projects include therapeutic monoclonal antibodies, recombinant proteins and enzymes. Industrial experience in gram-scale processing and purification of proteins derived by cell technology under GMP conditions is preferred.

**Molecular Biologist-Gene Expression**

Opportunity for a scientist with PhD in Molecular Biology or related field and postdoctoral experience in gene expression. You will be responsible for developing gene expression expertise in mammalian host cell systems and for maximizing expression by genetic engineering technology. Focus will include systems for chimeric monoclonal antibodies and recombinant proteins. Experience in developing expression vectors for mammalian hosts is necessary and industrial experience is preferred.

**Cell Biologists**

Positions are available for scientists with PhD (with postdoctoral experience) and BS/MS degrees in Cell Biology or related field to support the development of improved cell lines using cell biology techniques. Projects will include monoclonal antibodies and recombinant protein derived from mammalian cells. Prefer experience in improving cell lines by clonal selection, adaptation, media development and cell sorting. Industrial experience is preferred.

**Biologics GMP Coordinator**

A position is available for a MS scientist with experience in the biotechnology or pharmaceutical industry. You will organize, update, write all necessary GMP and GLP procedures for the clinical supplies manufacture of biologics and related fermentation products. You must have thorough knowledge of GMP procedures and be responsible for updating process manuals and validation protocols.

**Biologics Project Manager**

A position is available for a MS, PhD scientist with four plus years experience in biologics program coordination and excellent organizational and communication skills. You will assist the VP of Biotechnology in coordinating production programs between Exploratory Biomedical Research scientists and the Biological Process Development scientists in Syracuse.

**Chemical/Biochemical Process Control Engineer**

Opportunity for an individual with a BS/MS in Chemical/Biochemical Engineering and/or process control who will focus on the development of antibiotics and other fermentation products. Must be capable of developing control strategies and translating concepts into automated control systems. Background in penicillin or cephalosporin fermentation would be advantageous.

**Biochemical Engineer**

Opportunity for an individual at the MS/PhD level in Biochemical Engineering, or a related discipline, with experience in the industrial production of cell-technology derived proteins. This position requires knowledge of CGMP requirements for the production of clinical-grade proteins and familiarity with industrial bio-reactor operations.

**Molecular Biologist**

Position open for a scientist with a BS/MS in Molecular Biology or related field. You will provide support for analyzing in process DNA contamination and gene stability during process scale-up. Must be familiar with cDNA conversion, dot blot and Southern analysis and DNA sequencing. Experience with GMP validations is desirable.

We offer a competitive compensation package and a comprehensive benefits program which includes relocation assistance to a superb upstate NY living area. Interested candidates should submit a resume indicating position of interest, salary history and requirements, in confidence, to:

**Associate Director, Genetic Engineering — JT.**

BRISTOL-MYERS SQUIBB COMPANY
INDUSTRIAL DIVISION — BLDG 58
P.O. BOX 4755, Syracuse, New York 13221-4755
An equal opportunity employer M/F/H/V
POSTDOCTORAL POSITION IN MOLECULAR BIOLOGY

Position available to study the large-scale organization of eukaryotic chromosomes, focusing on the structure of chromosomes during meiosis in the yeast *Saccharomyces cerevisiae* and using a combination of genetic, molecular and cytological techniques. Those with prior experience or with an interest in chromosome organization, yeast artificial chromosomes, chromosome pairing or meiotic recombination are particularly urged to apply.

Please send letter and curriculum vitae, or call (405) 271-7682.

Michael E. Dresser, M.D., Ph.D.
Program in Molecular and Cell Biology
Oklahoma Medical Research Foundation
825 N.E. 13th Street
Oklahoma City, OK 73104

EOE/Affirmative Action Employer. OMRF encourages women and minorities to apply.

POSTDOCTORAL TRAINING PROGRAM IN TUMOR IMMUNOLOGY

Duke University Medical Center

Postdoctoral training in immunology is offered at Duke University Medical Center. Fellowships in laboratories conducting cancer related research in molecular immunology, immunogenetics, cellular immunology, transplantation immunology, immunopathology, and autoimmune diseases are available. Fellowships are open to U.S. citizens and foreign nationals with permanent resident visas holding the Ph.D., M.D., or equivalent degrees who have had fewer than three years of postdoctoral experience. Send letters of inquiry to Dr. Frances E. Ward, Postdoctoral Training Coordinator, Department of Microbiology and Immunology, Box 3010, Duke University Medical Center, NC 27710. An equal opportunity/affirmative action employer.

Ph.D. COMPUTATIONAL CHEMIST

DowElanco, a research-driven world leader in agricultural products headquartered in Indianapolis, is seeking a self-directed, highly creative Computational Chemist to join our Computer Assisted Molecular Design (CAMD) Group. This group is aggressively pursuing all areas of computational chemistry toward the discovery and development of agricultural chemical products. Utilizing new CAMD techniques, and interacting with a variety of research groups, you'll be involved in small and large molecule molecular modeling, QSAR, Experimental Design, Supercomputing, and Artificial Intelligence. The successful candidate will also help develop effective new computational techniques to apply to the design of bioactive molecules.

We seek a Ph.D. or post-doctoral level chemist with a strong background in at least one area of computational chemistry and a strong interest in other areas of computational chemistry, and the ability to design and implement successful computational chemistry studies. Strong leadership, interpersonal and collaborative skills are essential.

DowElanco offers an outstanding professional environment, an attractive salary, and excellent corporate benefits. For immediate consideration please forward your resume to: Dr. Scott H. Hutchins, R&D Recruitment Manager, DowElanco, 9002 Purdue Road, Indianapolis, Indiana 46268-1189. Resumes must be received by December 1, 1990. An Equal Opportunity Employer.

RESEARCH TOXICOLOGIST

The Upjohn Company, a recognized leader in research, production and marketing of quality pharmaceuticals, invites applications for the position of Research Toxicologist in our Drug Safety Research Group.

As a member of a multi-disciplinary team, this Research Scientist will support and enhance the drug development process in our human and animal health businesses. This scientist will be responsible for the study design, implementation, supervision, study conduct, and the interpretation and reporting of drug safety studies required to characterize the toxicity of drug candidates in multiple laboratory animal species. These studies will support human safety and human food safety with a world-wide emphasis. This person will have excellent planning and organizational skills to conduct long-term (3 to 24 months) animal studies in accordance with GLP guidelines. Excellent written and oral skills are required for preparation of technical reports and numerous personnel interactions. A Ph.D. or D.V.M. with Ph.D in Toxicology or related discipline is necessary, as well as strong interest, knowledge and relevant experience in general animal toxicology. ABT certification or eligibility is a plus.

Upjohn offers a competitive compensation and benefits package in addition to a stimulating, multi-disciplinary research environment. You are invited to send your curriculum vitae to: The Upjohn Company, Corporate Recruiting/Code 5707-HA, 7000 Portage Road, Kalamazoo, MI, 49001-0199. Refer to job code 5707-HA in your cover letter. An Equal Opportunity Employer M/F.

OUR COMMITMENT TO SCIENTIFIC EXCELLENCE CONTINUES...

Upjohn
POSTDOCTORAL FELLOWSHIP

The Academy of Natural Sciences of Philadelphia is pleased to announce the establishment of the John J. and Anna H. Gallagher Fellowship. This postdoctoral fellowship is in research on the systematics of microscopic invertebrates, with priority for the study of rotifers. Applications are now being accepted for the first 1-year fellowship, to commence in the fall of 1991. Send curriculum vitae, statement of research interests, and the names and telephone numbers of three references to: John J. and Anna H. Gallagher Fellowship Committee, Academy of Natural Sciences, 19th and the Parkway, Philadelphia, PA 19103. Applications will be accepted until mid-January 1991.

POSTDOCTORAL FELLOW IN MOLECULAR ENDOCRINOLOGY

For studies of ligand binding and transmembrane signaling by the insulin and IGF-I receptors. Experience in molecular biology or protein chemistry. Required: Ph.D. degree, curriculum vitae, current address, names, and telephone number of three references to: Dr. Jonathan Whitaker, Department of Medicine, SUNY Health Sciences Center, HM151, Room 6060, State University of New York (SUNY) at Stony Brook, Stony Brook, NY 11794. SUNY is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL AND GRADUATE FELLOWSHIPS

The University of Cincinnati College of Medicine offers a modern interdepartmental training program in environmental molecular and cellular carcinogenesis and mutagenesis. Cincinnati is a leading academic and industrial center for environmental studies providing numerous employment opportunities. Experimental approaches within the program include the role of growth factors and oncogenes in cellular transformation, the use of transgenic cells and animals, and molecular toxicology. Participating faculty are: Dr. Roy Albert (carcinogenic mechanisms), Dr. Stu Baxter (tumor promotion), Dr. Michael Liebermann (growth factors and differentiation), Dr. John Loper (P450 systems in the liver, an insertional mutagenesis in transgenic mice), Dr. Howard Shernetz (chemoprevention of carcinogenesis), Dr. Peter Stambrook (mutagenesis in transgenic cells and mice), Dr. Edward Stellwagen (cell transformation), Dr. James Stringer (recombination and gene targeting in ES cells), and Dr. David Warshawsky (mechanisms of chemical carcinogenesis).

Positions are immediately available and are funded through a national research training program. Applicants must have U.S. citizenship or permanent residency and have completed a Ph.D. degree or equivalent. Candidates should send curriculum vitae and three letters of recommendation to: Dr. Peter J. Stambrook, Department of Anatomy and Cell Biology, University of Cincinnati College of Medicine, Cincinnati, OH 45267. An Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE

Postdoctoral fellowships are available to study the molecular mechanism of tumorigenesis in retinoblastoma. Send curriculum vitae and names of references to: Dr. George Sherry, Department of Ophthalmology, University of Miami, P.O. Box 116680, Miami, FL 33101. The University of Miami is an Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE

Position available 1 December 1990 to study bacterial colonization and adherence to urinary catheters as part of a multi-investigator study of adhesion at urinary tract infection. Requires Ph.D. in microbiology or related area.

POSTDOCTORAL RESEARCH ASSOCIATE

Position available immediately at Bascom Palmer Eye Institute, Department of Ophthalmology, University of Miami School of Medicine, Miami, Florida, to study molecular and cellular mechanisms involved in human genetic ocular diseases. Recombinant DNA techniques are primarily used to study retinital pigmentation, gyrate atrophy, and retinoblastoma. Applicant should have Ph.D. or M.D. experience in molecular biology preferred but not required. Send curriculum vitae and names, addresses, and telephone numbers of three references to: Dr. George Inagaki, Associate Dean, Department of Ophthalmology, University of Miami School of Medicine, P.O. Box 116680, Miami, FL 33101. The University of Miami is an Equal Opportunity/Affirmative Action Employer.

Assistant Scientist

Full-time research position to develop an independently funded program focusing on development aspects of retinoblastoma utilizing cell transformation and/or molecular biology and 1 to 2 years of postdoctoral experience in retinal gene expression is required. Deadline is 1 November 1990. Send research goals, curriculum vitae, and three letters of reference to: William W. Hauswirth, Ph.D., Professor, Department of Ophthalmology, Box J-284, University of Florida, Gainesville, FL 32610. Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE

Postdoctoral fellowships are available to study the molecular mechanism of tumorigenesis in retinoblastoma. Send curriculum vitae and names of references to: Dr. John D. Gauthier, Department of Ophthalmology, Box J-284, University of Florida, Gainesville, FL 32610. University of Southern California/Children's Hospital Los Angeles is an Equal Opportunity Employer.

RESEARCH ASSOCIATE

Clinical Pharmacology at The Johns Hopkins University School of Medicine. We are seeking an individual with extensive experience in growing various human pathogenic viruses including HSV, HCMV, and HIV and a strong background in antiviral drug research. Molecular biology experience, especially in the molecular mechanisms of viral replication, is essential. Must have M.D. or Ph.D. degree. Send curriculum vitae to: Marc Lippman, M.D., Podium Level, Lombardi Cancer Research Center, 3800 Reservoir Road, N.W., Washington, D.C. 20007.

RESEARCH ASSOCIATE

Position available immediately at: 401 South State Street, Suite 3 South, Chicago, IL 60605. Attention: Joan Myers, Reference No. M-673-5. An employer-paid ad. This is a university position.
HOWARD HUGHES MEDICAL INSTITUTE

FELLOWSHIPS FOR BIOLOGICAL AND BIOMEDICAL SCIENCES

The Howard Hughes Medical Institute has established a number of programs that support training in fundamental biological and biomedical research. Awards, based on a national competition each year, focus on research directed to understanding basic biological processes and disease mechanisms. Fellowships may be held at any academic or research institution.

■ Predoctoral Fellowships in Biological Sciences
   Up to five years of support for full-time graduate study toward the Ph.D. degree in cell biology and regulation, genetics, immunology, neuroscience, and structural biology in addition to biostatistics, epidemiology, and mathematical biology. Applicants must not have completed the first year of postbaccaulaureate graduate study in biology. Application deadline: November 9, 1990.

■ Postdoctoral Research Fellowships for Physicians
   Three years of support for training in fundamental research subsequent to clinical training. Application deadline: March 1, 1991.

■ Medical Student Research Training Fellowships
   Support to medical students in the United States for one year of full-time fundamental research. Application deadline: December 5, 1990.

■ Research Scholars at the National Institutes of Health
   Under this joint HHMI-NIH program, medical students in the United States spend an intensive year in research in the intramural program at the NIH in Bethesda, Maryland. Residence is provided at the Cloister on the NIH campus. Application deadline: January 15, 1991.

PROGRAM ANNOUNCEMENTS FOR THE 1991 COMPETITIONS

FOR PREDOCTORAL FELLOWSHIPS:
Hughes Fellowship Program
The Fellowship Office
National Research Council
2101 Constitution Avenue, N.W.
Washington, D.C. 20418
(202) 334-2872

FOR OTHER PROGRAMS:
Howard Hughes Medical Institute
Office of Grants and Special Programs
Department BA91
6701 Rockledge Drive
Bethesda, MD 20817
(301) 571-8412

The Howard Hughes Medical Institute, an Equal Opportunity Employer, welcomes applications from all qualified candidates and encourages women and members of minority groups to apply.
POSITIONS OPEN

RESEARCH ASSOCIATE POSITIONS

Research associate opportunities are periodically available with the College of Biological Sciences at the University. Positions may be available in the Departments of Biochemistry, Ecology, Evolution, and Behavior; Plant Biology; and Genetics and Cell Biology. Positions may also be available in the following research programs: Cell Muscin of Natural History; Gray Freshwater Biological Institute, Biological Process Technology Institute, Lake Innsa Forestry and Biological Institute; and the Department of Physics. Applications from interested persons must include a personal curriculum vitae, a statement of research interests and experience; names, addresses, and telephone numbers of three referees; and a copy of the research environment (cellular or biochemical) that the individual intends to pursue. The application deadline is February 15, 1990. The University of Minnesota is an Equal Opportunity Employer.

POSITIONS OPEN

RESEARCH PROFESSOR

Conducts research in synthetic organic chemistry in purines, pyrimidines, nucleosides, and nucleotides; performs techniques for the total synthesis of natural products and new compounds, and total synthesis of active principles from herbs; prepares reports and research papers.

Applicants should send curriculum vitae, names, and addresses of three referees to: T. Hasan, Ph.D./R.W. Gange, M.D., Wellman Laboratories of Photomedicine, Highland Medical Bldg., Massachusetts General Hospital, Boston, MA 02114.

POSITIONS OPEN

RESEARCH ASSOCIATE PROFESSOR OR RESEARCH ASSOCIATE

The University of Minnesota is an Equal Opportunity Educator and Employer and specifically invites and encourages applications from women and minorities.

TWO POSITIONS

RESEARCH ASSISTANT PROFESSOR. Position in the Applied Physics Laboratory, UIC Eye Center. University of Illinois at Chicago. Research development, testing, and application of new instrumentation for diagnosis and treatment of eye diseases. Requirements: Ph.D. in physics, at least 2 years of experience in applied research, and knowledge of optical techniques, programming skills in the PC environment, and excellent capabilities in writing scientific material. The candidate will be expected to seek independent funding. Salary competitive with national average for similar qualifications.

RESEARCH ASSOCIATE PROFESSOR/PHD. Candidate must have a strong background in biophysics, and at least 2 years of postdoctoral training in the application of advanced neurophysiological techniques to the study of transport mechanisms, second messenger systems, and neuron-glial interactions. Preference given to applicants with experience in biochemical and/or ultrastuctural techniques applicable to these research areas. The candidate should be expected to work in a collaborative setting, with opportunities to develop independent research activities through extramural funding. Anticipated starting date for both positions is 1 November 1990. Applications should be received by 19 October 1990 to receive fullest consideration. Please send curriculum vitae and three letters of reference to: John C. McCrosky, Administrator, UIC Eye Center (M/C 648), 1855 West Taylor, Chicago, IL 60612. The University of Illinois is an Equal Opportunity Employer.

POSITIONS AVAILABLE: (i) CELLULAR BIOCHEMIST to study antioxidant stress proteins and their relationship to inducible cellular resistance to oxidative injury in mammalian and cultured cells in vivo. Experience in protein isolation, electrophoretic techniques (PAGE, Western, and Northern blotting) desirable. (ii) TUMOR BIOLOGIST with at least 2 years of relevant postdoctoral experience. Should be skilled in techniques such as the evaluation of cancer markers, molecular characterization of protein antigens, and tumor cell metabolism. Must have experience in cellular and molecular biology and biochemistry highly desirable. Candidates must be interested in photobiology and be eager to work in multidisciplinary collaborative projects and to initiate a vigorous and independent research program. Salary and position will be commensurate with experience. Please send curriculum vitae and names and addresses of three references to: T. Hasan, Ph.D./R.W. Gange, M.D., Wellman Laboratories of Photomedicine, Highland Medical Bldg., Massachusetts General Hospital, Boston, MA 02114.

BONUS CIRCULATION FOR YOUR CLASSIFIED AD

Our 16 November 1990 issue will be distributed to scientists attending the meeting of the American Society for Cell Biology (ASCB) in San Diego, California, 9 to 13 December 1990. Deadline for submission of classified ads: 1 November 1990.

SCIENCE Classified Advertising

Telephone: 202-526-6555

FAX: 202-562-0816

176

SCIENCE, VOL. 250

POSITIONS OPEN

RESEARCH ASSOCIATE PROFESSOR OR RESEARCH ASSOCIATE

A research position is immediately available to study cardiac isotope transport as laboratory director of the Myocardial Isotope Research Laboratory (NIH-funded) at a medical school in the Northeast. Candidates should have Ph.D., and experience in cell culture is preferred. The basic laboratory studies include in vitro and in vivo biological applications of radionuclides. The position includes first-page extraction and quantitative autoradiography. Academic degree and salary commensurate with experience. A Ph.D. in biochemistry with experience in metabolic pathways of interest and references will be needed. A copy of this ad or ad of Job #9009 to: Department of Employment Services, 300 C Street, N. Y. B. 500, 20001. Pay of legal right to work in the United States must be provided.

RESEARCH SCIENTIST

Ph.D. experienced in cell biology, molecular biology, and/or protein chemistry wanted for the Division of Pulmonary and Critical Care Medicine in the Department of Internal Medicine at Yale University. Must be willing to participate in sectional programs and have the desire and ability to establish an independent line of investigation. Interest in inflammation, cytokines, and/or matrix is highly desirable. Ten-month appointment with protected time and resources available for qualified individual. Please send curriculum vitae and three references to: Dr. Robert F. Ganz, Division of Pulmonary and Critical Care Medicine, Yale University School of Medicine, P.O. Box 2087, New Haven, CT 06510. Yale University is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT RESEARCH SCIENTIST/ EYECARE SCIENTIST ELECTRON PARAMAGNETIC RESONANCE IN BIOLOGICAL MATERIAL

A Ph.D.-level assistant research scientist (tenure-track, fiscal year appointment) is sought by the Department of Botany at Arizona State University. Expertise in EPR spectroscopy with biological systems is required, and experience with ENDOR is preferred. The successful candidate will be expected to develop an external research program compatible with current research emphases within the department. In lieu of formal teaching obligations, responsibilities will include user training and maintenance of the newly acquired hyper- frequency spectrometer with ENDOR capabilities. Applicants should submit curriculum vitae and a statement of research interests, and arrange for three letters of reference. Submit Cur- rms, Search Committee Chair, Department of Bot- any, Arizona State University, Tempe AZ 85287- 1675 Tel: 602-965-3498; FAX: 602-965- 3498. The application deadline is 30 November 1990, or the 30th of each month thereafter until the position is filled. Affirmative Action/Equal Opportunity Employer.

VIROLOGIST/MOLECULAR VIROLOGIST

The Oregon Regional Primate Research Center is seeking two innovative investigators at the ASSISTANT OR ASSOCIATE SCIENTIST level to develop independent research programs focused on nonhuman pri- mate animal models for AIDS. Applicants must have a doctoral degree, postdoctoral experience, and demonstrable potential for, or a previous record of, extramural funding. Research interests are in the development of molecular approaches to simian or human immunodefi- ciency retrovirus pathogenesis and vaccine strategies are desirable. Joint academic opportunities are available at the Oregon Health Sciences University, Portland, Oregon. The level of appointment will be contingent on the applicant's qualifications, with advanced levels requiring a strong record of publication and extramural support. Applicants should submit curriculum vitae and four professional references by 15 November 1990 to: Mrs. K. Aarson, Department Chair, Oregon Regional Primate Research Committee, Oregon Regional Primate Research Center, 505 N.W. 185th Avenue, Beaverton, OR 97006. Telephone: 503-690-5236. Affirmative Action/Equal Opportunity Employer.

NATIONAL HEART, LUNG, AND BLOOD INSTITUTE (NHLBI)

The Laboratory of Cell Biology, National Heart, Lung, and Blood Institute, invites applications for a position as COLLABORATIVE ASSOCIATE, GS-12 (salary range: $35,000 to $45,000). The overall emphasis of the laboratory is the understanding of the molecular basis of cell motility, using a combination of cell biological, and molecular genetic approaches. The applicant must hold a Ph.D. and/or M.D. degree or equivalent experience and have at least 3 years of relevant postdoctoral experience. We are seeking an individual with broad experience in protein purification and molec- ular biology techniques, as well as in the analysis of cell motility by video-enhanced microscopy. A thorough understanding of the cell biology of Drosophilum, including transformation and phenotype analysis, would be very beneficial. Send curriculum vitae and three letters of recommendation to: Dr. John Hammer, Laboratory of Cell Biology, Building 3, Room B1-22, National Institutes of Health, Bethesda, MD 20892. NIH is an Equal Opportunity Employer.

PLANT SCIENTIST

Immediate opening for a plant scientist to support research and development activities related to the Con- trolled Ecological Life Support System Program at Ken- nedy Space Center. Ph.D. or equivalent experience in molecular biology, and at least 4 years of experience in greenhouse or growth chamber work re- lated to crop science or biomass production required. Experience in crop physiology, agroecology, agronomy, plant nutrition, plant physiology, or related activities is preferred. Work with interdisciplinary team of engineers/scientists in operation and mainte- nance of a large closed environment used in study of bioregenerative processes for food production and recycling of water, oxygen, and carbon dioxide. Submit resume to: Personnel, The Bioentity Corpora- tion, BIO-1, Kennedy Space Center, FL 32899, by close of business 9 November 1990. Equal Opportunity Employer, M/F/H/V.
BARD, The United States-Israel Agricultural R&D Fund, announces two fellowship programs promoting cooperative agricultural research. The first Program, established in 1985, is between postdoctorate fellows from the United States and scientists from Israel and vice versa. Grant applicants should be citizens of either the U.S. or Israel, and should have fulfilled the requirements for a Ph.D. degree within the last three years (postdoctorates).

The duration of each Postdoctorate Fellowship will be determined by the selection committee which may approve a period of up to two years in the host country, with the possibility of a third year in the awardee’s home country.

The Postdoctorate Fellowship grant will be paid directly to the grantee. Each grantee will be awarded a grant of $25,000, to cover travel expenses and living during the first year. The grant for possible subsequent years will be $23,000. If necessary, a small allowance, not to exceed $3,000, will be paid to the institution for operating expenses for the proposed research.

A Research Fellowships provision is incorporated into the Program this year. U.S. citizens who are established research scientists in American non-profit research institutions, universities or federal and state agencies are eligible to become Research Fellows. Research Fellows will be funded for a period of 4 to 12 months with a grant of $25,000 on a 12 month basis to cover travel and modest living expenses.

For information on application procedures please contact BARD offices at either:

BARD
USDA-ARS
Room 107, Bldg. 005, BARC-West
Beltsville, MD 20705
U.S.A.
Tel: 301-344-2605
Fax: 301-344-3298

BARD
The Volcani Center
P.O.B. 6
Bet Dagan
Israel 50250
Tel: 972-3-9655133
Fax: 972-3-9662506

BROOKHAVEN NATIONAL LABORATORY

Medical Physicist

The Cyclotron-PET Program at Brookhaven National Laboratory is seeking a Medical Physicist to oversee PET operations for the clinical and research projects. Applicants must have a Ph.D. in Medical Physics or equivalent background. Experience with PET instrumentation, the VAX/VMS operating system and UNIX would be helpful. Skills in programming, statistical analysis and mathematical modeling are also desirable. This is a key position in the group and one which requires an involvement at both the clinical and research level, since obtaining high quality PET measurements is central to both the clinical and research programs. The position involves supervising technicians in daily routine PET operations as well as physics support for the clinical and research studies including assuring instrument calibration and performance, quality control, and implementing new software and work station operations as new research protocols and radionuclides are developed. Although the major focus of the position is to oversee PET operations, an active involvement in the research of the group as well as development of new techniques for accurate quantitation and analysis of images may be concurrently pursued and is often required as new problems arise.

This is a multidisciplinary group where new tracers are being developed and studied with PET and where in vivo imaging in animals is undertaken with a special attention to the quality of the PET measurement and the mechanistic biochemistry underlying the kinetic and spatial properties of the image. Instrumentation includes a CTI/931 whole body high resolution tomograph associated microvax computer, Sun workstation, Macintosh II and other computers. The PET facility also houses an operational PET VI brain tomograph and a small blood analysis laboratory, and is adjacent to two cyclotrons and a chemistry laboratory dedicated to radionuclide research and development.

Interested candidates should send resume and the names of three references to: Dr. Alfred P. Wolf, Chemistry Department, Brookhaven National Laboratory, Associated Universities, Inc., Upton, Long Island, NY 11793. Equal opportunity employer M/F.

CONFERENCE RESCHEDULED

CONFERENCE ON CHEMICAL RISK
ASSESSMENT IN THE DoD:
SCIENCE, POLICY, AND PRACTICE

Due to lack of a resolution of the Congressional budget problems as well as recent events in the Middle East, the DoD conference on risk assessment planned for October 10-16, 1990 in Dayton, Ohio has been postponed. The conference has been rescheduled for April 9-11, 1991.

This conference will be sponsored by the Air Force Harry G. Armstrong Aerospace Medical Research Laboratory, the Naval Medical Research Institute Detachment (Toxicology), and the Army Biomedical Research and Development Laboratory, with the cooperation of the National Research Council Committee on Toxicology.

The goals of the conference are to promote exchange of information between those who develop risk assessment methodologies and those who perform risk assessment. Although the conference will focus on DoD applications, the discussions should be applicable for all practitioners of risk assessment. The conference will feature invited presentations by noted individuals in the field and a poster session for studies relevant to the conference theme. Individuals interested in presenting a poster at the April conference (who have not previously submitted an abstract for the October conference) should contact Ms. Lois Doncaster, Conference Coordinator. Abstracts must be received by January 15, 1991.

To obtain further information, contact Ms. Lois Doncaster, Conference Coordinator, NSI Technology Services Corporation, 101 Woodman Drive, Suite 12, Dayton, Ohio 45431 (513, 258-1150).

CONFERENCE ON CHEMICAL RISK
ASSESSMENT IN THE DoD:
SCIENCE, POLICY, AND PRACTICE

Due to lack of a resolution of the Congressional budget problems as well as recent events in the Middle East, the DoD conference on risk assessment planned for October 10-16, 1990 in Dayton, Ohio has been postponed. The conference has been rescheduled for April 9-11, 1991.

This conference will be sponsored by the Air Force Harry G. Armstrong Aerospace Medical Research Laboratory, the Naval Medical Research Institute Detachment (Toxicology), and the Army Biomedical Research and Development Laboratory, with the cooperation of the National Research Council Committee on Toxicology.

The goals of the conference are to promote exchange of information between those who develop risk assessment methodologies and those who perform risk assessment. Although the conference will focus on DoD applications, the discussions should be applicable for all practitioners of risk assessment. The conference will feature invited presentations by noted individuals in the field and a poster session for studies relevant to the conference theme. Individuals interested in presenting a poster at the April conference (who have not previously submitted an abstract for the October conference) should contact Ms. Lois Doncaster, Conference Coordinator. Abstracts must be received by January 15, 1991.

To obtain further information, contact Ms. Lois Doncaster, Conference Coordinator, NSI Technology Services Corporation, 101 Woodman Drive, Suite 12, Dayton, Ohio 45431 (513, 258-1150).
POSITIONS OPEN

A SYMPOSIUM ON BIOGEOCHEMISTRY OF WETLANDS

To be held at Louisiana State University in Baton Rouge, 10 to 12 January 1991. Topics to be included are: nutrient cycling in wetlands, plant-soil interactions in wetlands, toxic heavy metal behavior in wetlands, reactions of toxic organics in wetlands, the use of wetland biogeochemical processes to characterize regulatory wetlands, and the role of wetlands in improving water quality. Persons interested in making a presentation or attending the symposium should contact William H. Patrick, Jr., Laboratory for Wetland Soils and Sediments, Louisiana State University, Baton Rouge, LA 70803. Telephone: 504-388-8806. FAX: 504-388-5423.

A SYMPOSIUM ON COMPUTATIONAL BIOLOGY

Sponsored by the W. M. Keck Center for Computational Biology, a joint center of Baylor College of Medicine and Rice University; 17 November 1990, at Inn on the Park, Houston, Texas. Speakers include Axel Brungger, Yale University; Russell Doolittle, University of California, San Diego; Danny Hilf, Thinking Machines, Inc.; Michael Levitt, Stanford University; and Arthur Olson, Scripps Clinic. Poster sessions. Persons interested in additional information should contact: Lila R. F., Keck Center, Office of Continuing Education, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030. Telephone: 713-798-6020.

THE SINGLE CELL GEL (SCG) WORKSHOPS

December 1990

INTEGRATED LABORATORY SYSTEMS RESEARCH TRIANGLE PARK NORTH CAROLINA

The SCG assay is a recently developed microelectrochemical technique for the sensitive detection of intercellular differences in DNA damage and repair using small samples of individual cells. The workshop will include both seminars and hands-on demonstrations of in vitro, in vivo, and human applications. Cost: $525.

Contact: Integrated Laboratory Systems, Genetic Toxicology Department, Raymond Tice, Director, P.O. Box 18501, Research Triangle Park, NC 27709. Telephone: 919-544-4589.

Announcing a national symposium on INNOVATIONS IN ANTIVIRAL AGENTS AND THE DETECTION OF VIRUS INFECTIONS


COURSES AND TRAINING

MOLECULAR ENDOCRINOLOGY AND TECHNIQUES FOR REPRODUCTIVE ACTION

16 to 21 February 1991

This COURSE will consist of lectures in methodology with comprehensive syllabus covering receptors, gene transcription, agonist binding, interaction with adenylate cyclase, cyclic nucleotide, and cyclic nucleotide. Co-directors: M. R. Hughes and B. W. O'Malley. Fee: $856 ($245 for fellows and students) for further information contact: Bonnie Cuthbert Department of Cell Biology Baylor College of Medicine Telephone: 713-798-6200 Deadline: 4 February 1991

1991 MARKY FELLOWSHIPS

Applications are invited from Ph.D.'s in the biological and biomedical sciences for summer research fellowships at the Mount Desert Island (MDI) Biological Laboratory, internationally renowned facility for comparative physiology and marine biology. Applicants should have several years beyond completion of the doctorate and evidence of independent research. The fellowships, sponsored by the Lucille P. Markey Trust, are based on individual needs and can include salary as well as laboratory space, housing, funds for supplies, and travel. Applications may be obtained by calling the office at 207-288-3600 or writing to: MDI Biological Laboratory, Department LPM, P.O. Box 35, Salisbury Cove, ME 04672. Deadline for completed applications is 11 January 1991.

SCIENCE welcomes placement of line classified ads by FAX. Please include name and telephone number for our confirmation call when transmitting ad to.

FAX NUMBER: 202-682-0816

POSITIONS OPEN

GRADUATE STUDIES IN BIOCHEMISTRY AND MOLECULAR BIOLOGY

DEPARTMENT OF BIOCHEMISTRY AND MOLECULAR BIOLOGY

UNIVERSITY OF ILLINOIS AT CHICAGO

Graduate fellowships or assistantships are provided for all students in the program. Research interests include molecular biology and genetics (development and differentiation), immunology, virology, protein kinases), protein engineering (enzyme active sites and modification), and molecular medicine (heart disease, cancer, muscular dystrophy). For further information and applications, please write or call: Graduate Admissions Committee, Department of Biochemistry (MC 5430), University of Illinois College of Medicine, 1853 West Polk Street, Chicago, IL 60612. Telephone: 312-996-7670. FAX: 312-413-0364.

POSTDOCTORAL TRAINING POSITIONS

Postdoctoral training opportunities are regularly available in the Department of Biological Sciences at the University of Minnesota. Positions may be available in the Departments of Biochemistry, Ecology, Evolution, and Behavior; Plant Biology; and Genetics and Cell Biology. Positions may also be available in the following research programs: Bell Museum of Natural History, Gray's Greenhouse Biological Laboratory, Biological Process Technology Institute, Lake Itasca Forestry and Biological Station, and the Plant Molecular Genetics Institute. The Ph.D. degree or equivalent is required and should have been obtained within the past 3 years. Application is limited to 3 years.

The college maintains a file of applicants for postdoctoral associate positions for the current fiscal year from 1 July 1990 through 30 June 1991. All applications are reviewed equally. Information from interested persons must include a personal curriculum vitae; a brief statement of research interests and experience; names, addresses, and telephone numbers of three references; and a statement of programs of interest. Direct application material to:

Senior Administrative Director

College of Biological Sciences

University of Minnesota

123 Snyder Hall

St. Paul, MN 55108

The University of Minnesota is an Equal Opportunity Educator and Employer and specifically invites and encourages applications from women and minorities.

ANNOUNCEMENTS

AFRICAN MONTANE ECOLOGY RESEARCH FUNDS AVAILABLE NOW

Two grants totaling $30,000 per year, through 1993, are available for basic and applied field research on the ecology of African montane ecosystems. Applications from investigators trained in agriculture, forestry, climatologists, ecologists, geographers, geologists, zoologists, etc. Applicants should have at least the equivalent of a bachelor's degree. Grants tenable at Karijioke Research Centre in Virunga Volcano region of Rwanda. For further details, inquire with stamped, addressed envelope to: AME Programme, The Digital Fund, 45 Inverness Drive East, Englewood, CO 80112.

1991 PEW SUMMER FELLOWSHIPS FOR UNDERGRADUATE FACULTY

The Mount Desert Island (MDI) Biological Laboratory internationally renowned facility for comparative physiology and marine biology, and the Pew Charitable Trusts have established a summer program designed to enhance undergraduate education in the biological sciences. Fellowships are awarded in three categories:

• Faculty member with Ph.D. actively teaching biology at the undergraduate level.

• Undergraduate student with minimum of 1 year of both biology and chemistry.

• Faculty/student pair with same qualifications as above.

Awardees may work from 1 to 4 months at the MDI Biological Laboratory with senior scientists or, in the case of faculty or faculty/student pairs, may choose to work independently. Funding provides for housing, travel, research costs, and salary; maximum faculty award is $14,000 with up to $6,000 salary; maximum student award is $6,900 with up to $2,400 salary. Applications may be obtained by calling the office at 207-288-3605 or writing to: MDI Biological Laboratory, Department of Marine Biology, 750 West Main Street, Bar Harbor, ME 04609. Deadlines for completed applications is 10 December 1990.

SITUATIONS WANTED

EDUCATOR/PH.D. MICROBIOLOGIST, strong in humanities, seeks transdisciplinary or honors program at teaching-oriented college, university. Laboratory animal experience (D.V.M.). Box 115, SCIENCE.

FLOW CYTOMETRIST, Ph.D. Established scientist with numerous publications, broad experience including clinical. Seeks industry, clinical, or academic. Will consult part time. Box 105, SCIENCE.

MARKETPLACE

PROTEIN SEQUENCING PEPTIDE SYNTHESIS

Digests - HPLC - AA Analysis - Oligos Quality Guaranteed, Rapid Turnaround Reasonable Prices

Protein and Nucleic Acid Chemistry Center Woods Hole Oceanographic Institution 1-800-674-6680; FAX: 1-508-548-1400, ext. 6208

Circle No. 122 on Readers’ Service Card

Custom DNA Purified and Delivered in 48 hours.

$10.00 a base for the first 15 bases, $7.50 for each additional base. No additional charges.

Research Genetics

Circle No. 9 on Readers’ Service Card

ANTI VITAL DRUG TESTING

Pan-Data Systems, Inc. “offers assistance in vitro testing of compounds for anti viral activity against hu man herpesviruses and retroviruses; using a variety of cell lines, and primary T-cells. For more information contact Ms. Christine Owens. 13 Telf Ct., Rockville MD 20850 (301) 294-2297 (301) 294-8069 (301) 543-6059

Custom DNA

Best quality and value

Call Midland

1-800-247-8766

Circle No. 127 on Readers’ Service Card
ATTEND SUPERCOMPUTING ’90

Supercomputing ’90 will bring together supercomputing systems researchers, designers, managers, and computer scientists and engineers to report advanced experiences and to plan future directions.

- More than 100 research papers, on topics ranging from parallel versus distributed processing, scientific applications, high-performance architectures, and systems software and languages
- Keynote address by Dr. Danny Hillis, Chief Scientist and Co-founder of Thinking Machines
- Tutorials and workshops on a wide range of topics
- Exhibits, including Cray, IBM, Thinking Machines, Sun, IMSL, and more than 60 others
- Research exhibits, featuring interactive computer graphics and experimental design
- One week in New York City, one of the most exciting cities in the United States!

For information on registration, contact Kelly Wakeman at the Cornell Theory Center, 420 Engineering and Theory Center Building, Ithaca, NY 14853-3801, phone 607-254-8613, or kelly@tcgould.tn.cornell.edu.

Sponsored by: IEEE Computer Society and ACM SIGARCH

In cooperation with: Lawrence Livermore National Laboratory | Los Alamos National Laboratory | NASA Ames Research Center | National Center for Atmospheric Research | National Science Foundation | SIAM Activity Group on Supercomputing | Supercomputing Research Center

Circle No. 215 on Readers’ Service Card
"I acquired this sequence with my EC650 power supply!"

Classic sequence autoradiographs are everyday work for E-C Electrophoresis Power Supplies. 18 unique models — the largest and broadest line in science. An almost unlimited choice of features and capacities, from 250 Volts to 6,000 Volts. At prices from $325 to $2,795.

Your work deserves the state-of-the-art in Power Supplies. Call 1-800-EC RANGE toll-free for our complete Power Supply Catalog. In Florida, call 1-813-344-1644. EC-Apparatus Corp.
3831 Tyrone Blvd. N. St. Petersburg, FL 33709
Telex: 51-4736 HALA

Sequence courtesy of U.S. Biochemical Corp. using Sequenase™ and an E-C Power Supply