FACULTY POSITIONS IN PATHOLOGY

The Department of Pathology at Baylor College of Medicine invites applications for faculty positions at the ASSISTANT or ASSOCIATE PROFESSOR level in the Section of Molecular Pathobiology. Applicants must have a Ph.D., M.D. or equivalent degree and are expected to establish a strong, independent, and nationally funded research program. The Department is undergoing rapid expansion in Research Faculty and has existing strengths in molecular and cellular approaches to fundamental processes of gene expression, transcription, alternative pre-mRNA processing, intracellular protein trafficking, microbial pathogenesis, growth regulation, molecular controls in cell differentiation and cell cycle regulation. While research programs that investigate molecular mechanisms of disease are desirable, we welcome applications from individuals working on basic questions of molecular and/or cellular biological approaches to fundamental techniques. Postdoctoral research and previous experience in generating extramural funding is desirable. Generous start-up funds are available. Send letter of application, curriculum vitae, statement of research objectives and reprints of two publications from the applicant and names, addresses and telephone numbers of three references to: Chairman of Faculty Search Committee, Department of Pathology, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030. Review of applications will begin October 30. Women and minority applications encouraged. Equal Opportunity Employer.

CORNELL UNIVERSITY
SECTION OF GENETICS AND DEVELOPMENT

Our Section is seeking an ASSISTANT PROFESSOR for a tenure-track position, available in the fall of 1994. The successful candidate will be expected to establish a vigorous externally funded research program in an important area of modern Genetics. The primary teaching responsibility will be to design and offer a lecture course in genetic analysis, with emphasis on eukaryotes, for advanced undergraduate and beginning graduate students. We strongly encourage applications from women and members of minority groups. Applications should include curriculum vitae, reprints of recent publications and a brief statement of present and future research interests. Complete applications and three letters of recommendation, solicited by the applicant, should be mailed to: G & D Search Committee, 101 Biotechnology Building, Cornell University, Ithaca, NY 14853-2703. Applications will be reviewed beginning November 15, 1993. Cornell University is an Affirmative Action/Equal Opportunity Employer.

CELL BIOLOGIST—CARNegie MELLON UNIVERSITY

The Department of Biological Sciences, Carnegie Mellon University, is seeking a Cell Biologist for a tenure-track appointment at the ASSISTANT PROFESSOR level. Exceptional candidates for appointment at a higher level will also be considered. Candidates using innovative molecular and/or cellular biological approaches and fundamental problems in Cell Biology are especially encouraged to apply. To apply, submit curriculum vitae along with a description of past research activities and future research plans; also arrange to have three letters of reference sent directly to: Cell Biology Search Committee, Department of Biological Sciences, Carnegie Mellon University, 4400 Fifth Avenue, Pittsburgh, PA 15213. Application deadline: December 15, 1993. Carnegie Mellon University is an Equal Employment Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR—PLANT BIOLOGY

Individuals investigating structural or developmental phenomena using emerging research techniques are sought for tenure-track position. Establishment of productive research program, application for external funding, and collaboration with colleagues are expected. A commitment to excellence in teaching is required. Course responsibilities include plant anatomy, cell/molecular biology, and introductory genetics. The Department desires to increase representation of women and minorities. Submit curriculum vitae, statements of teaching philosophy and research goals, and names of three references by November 15, 1993 to: Head, Department of Botany, Oklahoma State University, Stillwater, OK 74078 (Equal Opportunity/Affirmative Action Employer).
DIRECTOR  
NATIONAL DEFENSE CENTER OF EXCELLENCE FOR RESEARCH IN OCEAN SCIENCE

The High Technology Development Corporation, an agency of the State of Hawaii Department of Business, Economic Development and Tourism, invites applications for the position of Director, National Defense Center of Excellence for Research in Ocean Sciences (CEROS). CEROS was established in March 1993 by a grant from the Advanced Research Projects Agency to support and stimulate a broad spectrum of research in ocean sciences. The Director will provide leadership in strategic planning, project development, program management and funding. The Director's main responsibilities will be (1) to develop and implement a strategic plan for CEROS; (2) to establish and maintain funding support and program continuity; (3) to coordinate and direct CEROS activities; (4) to develop CEROS mission and policy, and (5) to represent CEROS and foster its interests. The position involves significant technical planning and marketing. The CEROS Director will work with high-ranking state and federal officials and with senior executive/technical personnel in the ocean sciences and in commercial ocean enterprises. The successful applicant must have significant professional stature to represent CEROS and assure program success and future. Qualifications: (1) advanced degree in oceanography, marine science or a related field; (2) eight or more years of responsible project administration in marine science or ocean engineering; (3) four years experience with state and federal agencies that have technical, fiscal or commercial interests in marine science and technology. Applicants who have developed, marketed and managed significant projects under Department of Defense funding and who have local, national and international experience/qualifications in the field of marine science and technology are preferred. This is an exempt and excluded position that is subject to continuation of the CEROS funding grant.

Interested individuals should send a resume, list of at least three references, and a cover letter stating salary history and expectations to:

William M. Bass  
Executive Director and CEO  
High Technology Development Corporation  
300 Kahela Avenue, Suite 35  
Mililani, HI 96789  
Fax: (808) 623-6363

Deadline for receipt of applications is Close of Business, October 15, 1993.

3-YEAR LECTURER BIOCHEMISTRY
Department of Biology
University of Michigan

A nontenure-track lecturer position in the Department of Biology at the University of Michigan is available. The initial term of appointment is for one semester. The department is seeking authorization to convert this to a 3-year lectureship which we anticipate will be on a 12 month basis and will be renewable based on satisfactory performance. The appointee will organize, coordinate and supervise a one-semester, Keller-Plan course in introductory biochemistry and the companion course taken by its student assistants; this course pair is offered each fall, winter and spring. The appointee will also lecture in an introductory biology course for non-majors during one term, and in an introductory course in the area of cell and molecular biology during a second term. To be considered, applicants must have a Ph.D. degree in biology or biochemistry and teaching experience in undergraduate biochemistry/molecular biology. The appointment is on a 12-month basis and includes a liberal benefits package. This position is available immediately, with instructional duties to begin in January of 1994. The deadline for receipt of applications is November 1, 1993. Applicants should provide curriculum vitae and have three letters of recommendation sent to:

Chair, Biochemistry Lecturer Search Committee  
Department of Biology  
The University of Michigan  
Ann Arbor, MI 48109-1048  
The University of Michigan is an Equal Opportunity/Affirmative Action Employer.

BIOCHEMISTRY & MOLECULAR BIOLOGY DEVELOPMENTAL & CELL BIOLOGY  
INDIANA UNIVERSITY-BLOOMINGTON

The Department of Biology at Indiana University intends to fill TWO TENURE-TRACK ASSISTANT PROFESSORSHIPS, available in the autumn of 1994, with individuals investigating fundamental questions in biochemistry, molecular, cellular, and/or developmental biology, using vertebrate -- preferably mammalian -- experimental systems.

We seek one biochemist or molecular biologist with research interests in the areas of protein biochemistry, gene regulation, cellular receptors, signal transduction, or virology, and one developmental biologist or cell biologist studying pattern formation, developmental gene regulation, neurobiology, tissue morphogenesis, organelle biogenesis and function, or subcellular trafficking. Successful candidates will be expected to develop vigorous, independent research programs and contribute to teaching. While we anticipate filling these positions at the level of Assistant Professor, outstanding senior candidates will also be considered.

Send a curriculum vitae and a statement of current and future research interests, and arrange for three letters of reference to be sent to: GCD/MBB Search Committee, Department of Biology, Indiana University, Bloomington, IN 47405. Applications received by December 1, 1993, are assured of consideration.

Indiana University is an Affirmative Action/Equal Opportunity Employer, and strongly encourages women and members of minority groups to apply.

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, reproductive biology, and environmental protection.

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.
Howard Hughes Medical Institute

Predoctoral Fellowships in Biological Sciences

66 Fellowships will be awarded by the Howard Hughes Medical Institute for study toward a Ph.D. or Sc.D. degree in the biological sciences listed below. Awards, based on an international competition, focus on research directed to understanding basic biological processes and disease mechanisms. Fellowships may be held at any academic or research institution with appropriate degree programs.

Fellowship Terms

- Full-time study toward the Ph.D. or Sc.D.
- Up to five years of support possible
- $14,000 annual stipend
- $12,700 annual cost-of-education allowance

Fields of Study

- Eligible fields:
  - biochemistry
  - biophysics
  - biostatistics
  - cell biology
  - developmental biology
  - epidemiology
  - genetics
  - immunology
  - mathematical biology
  - microbiology
  - molecular biology
  - neuroscience
  - pharmacology
  - physiology
  - structural biology
  - virology

Eligibility

- Beginning graduate study (prior study toward an M.P.H. or a medical degree does not rule out eligibility)
  - college seniors
  - first year graduate students
  - medical students and physicians (M.D., D.O., D.D.S., or D.V.M.) not past the first year of a Ph.D. or Sc.D. degree program
- Not in a funded M.D./Ph.D. program
- No citizenship requirements: U.S. citizens may study abroad, but others must study in the United States

Schedule

Application deadline: November 5, 1993
Awards announced: early April 1994
Fellowships start: June 1994–January 1995

For 1994 Program Announcements, Eligibility Guidelines, and Applications

Hughes Fellowship Program
The Fellowship Office
National Research Council
2101 Constitution Avenue
Washington, D.C. 20418, United States of America
Telephone (202) 334-2872

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

ASSOCIATE PROFESSOR
BACTERIAL OR VIRAL IMMUNITY

The Department of Microbiology & Immunology, Bowman Gray School of Medicine, Wake Forest University, invites applications for a tenure-track position at the rank of ASSOCIATE PROFESSOR. We seek an individual with an active research program that focuses on bacterial or viral immunity, or the development of therapeutic interventions of the immune response against bacterial or viral pathogens. Applicants must have current NIH funding. The Department has ongoing programs in the biochemical and molecular aspects of bacterial and viral pathogenesis, immune cell function, and mRNA transport and processing. The Department has an outstanding Ph.D. training program that is funded by a grant from the NIH. Excellent research facilities, shared equipment, and core laboratories are available with the Department as well as the NIH-funded NIH-funded Cancer Center and the Program in Molecular Genetics. Applicants should send curriculum vitae, a statement of research and teaching interests, and the names of three references to: Dr. Steven B. MIZEL, Department of Microbiology & Immunology, Bowman Gray School of Medicine, Wake Forest University, Medical Center Boulevard, Winston-Salem, NC 27157-1056. Wake Forest University is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR, TENURE-TRACK
Department of Biomedical Sciences, University of Illinois College of Veterinary Medicine, Rockford, IL

The position is preferred given the need to meaningfully contribute to a team-taught course in Medical Pharmacology, but individuals from other disciplines including clinical medicine will be considered. Applicants should have current NIH funding and the individual is expected to be willing to develop an independent, externally funded research program. The specific area of research is flexible, however, the individual is expected to be highly interactive with the faculty present, whose research interests include neuroscience, molecular virology, cell signaling, and molecular interactions with nucleic acids. Submit curriculum vitae, a short statement of research interests and teaching experience, and three references to: Chair, Faculty Search Committee, Department of Biomedical Sciences, 1800 Health Science Court, College of Medicine at Rockford, 1601 Parkview Avenue, Rockford, IL 61107-1897. Screening of candidates will begin 1 November 1994 and continue until the position is filled. UIC is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR—BIORGANIC/BIOCHEMIST:
The Department of Chemistry at Union College invites applications for a tenure-track position at the Assistant Professor level beginning fall 1994. The successful candidate is expected to have a Ph.D. and preference will be given to those with documented experience in teaching. Applicants should have the potential for excellence in undergraduate teaching and research. Experience in organic laboratory teaching is desirable. Union College is a small, selective undergraduate institution with a particular strength in science and engineering. Applicants are to provide curriculum vitae, outline of research interest (and needs), three letters of recommendation, and undergraduate and graduate transcripts to: Professor John R. SOWA, Chair of Search Committee, Department of Chemistry, Union College, Schenectady, NY 12308 by December 10, 1993. Union College is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION
UNITED STATES AIR FORCE ACADEMY

Joint appointment in the Department of Genetics and the Division of Medical Genetics. We are seeking an investigator with an established research program in the field of human or mouse genetics for appointment to a tenured position at the Associate or Full Professor level. Laboratory space will be provided in a new research facility contiguous with laboratories of the Division of Medical Genetics and the Departments of Genetics, Molecular Biotechnology, Biochemistry, and Immunology. Initial research support will be available from the Army Medical Research and Materiel Command. Review of applications will begin December 15, 1993. Please send curriculum vitae to: Dr. Stanley M. GAERTNER, Search Committee, Department of Genetics SK-40, University of Washington, Seattle, WA 98195. An Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

ASST PROFESSOR:
DEPARTMENT OF MOLECULAR BIOPHYSICS AND BIOCHEMISTRY

The Department of Molecular Biophysics and Biochemistry invites applications for a position at the level of Assistant Professor. The successful candidate will be expected to develop an independent research program and to participate in departmental teaching. Candidates should submit curriculum vitae with a summary of present and future research interests, and request that three letters of recommendation be sent no later than November 30, 1993. Address applications to: Dr. Robert STEITZ, Search Committee, Department of Molecular Biophysics and Biochemistry 0734, Yale University, P.O. Box 208114, 260 Whitney Avenue, New Haven, CT 06520–8114, USA. Yale University is an Equal Opportunity/Affirmative Action Employer and invites applications from all qualified individuals.

ASSISTANT PROFESSOR:
DEPARTMENT OF MOLECULAR BIOPHYSICS AND BIOCHEMISTRY

The Department of Molecular Biophysics and Biochemistry seeks applicants for a position at the level of Assistant Professor. The successful candidate will be expected to develop an independent research program and to participate in departmental teaching. Candidates should submit curriculum vitae with a summary of present and future research interests, and request that three letters of recommendation be sent no later than November 30, 1993. Address applications to: Dr. Robert STEITZ, Search Committee, Department of Molecular Biophysics and Biochemistry 0734, Yale University, P.O. Box 208114, 260 Whitney Avenue, New Haven, CT 06520–8114, USA. Yale University is an Equal Opportunity/Affirmative Action Employer and invites applications from all qualified individuals.

NEUROPHARMACOLOGIST/NEUROSCIENTIST:
The Department of Pharmacology at Texas Tech University Health Sciences Center School of Medicine invites applications for two tenure-track positions at the Associate or Full Professor level. The Department has recently expanded and is seeking outstanding scientists with an M.D. or Ph.D. degree who have a strong record of achievement. General areas of interest include synaptic transmission, intracellular signaling, neuronal plasticity, and neurochemistry. Interested applicants should send curriculum vitae, a letter of interest, and three letters of recommendation to: Dr. Louis A. CHIODO, Chairman, Department of Pharmacology, Texas Tech University Health Sciences Center School of Medicine, 3601 4th Street, Lubbock, TX 79430, An Equal Opportunity/Affirmative Action Employer.

MICHIGAN STATE UNIVERSITY

CANINE MOLECULAR GENETICS

The College of Veterinary Medicine at Michigan State University seeks to fill up to two tenure-track faculty positions at the level of ASSISTANT PROFESSOR in the area of canine molecular genetics. The positions will be joint appointments in the Departments of Small Animal Clinical Sciences and Biotechnology. Responsibilities include developing an externally funded research program as part of a collaborative commitment to the study of canine genetic disease along with limited teaching within the veterinary, graduate and/or undergraduate curricula. The appointee will have a Ph.D. or M.D., an established research program, demonstrated research productivity and background in active phase proteins. Send letter of interest, curriculum vitae and 3 letters of recommendation to Dr. C. B. STAMPS, College of Veterinary Medicine, Michigan State University, East Lansing, MI 48824. Applications must be received by November 15, 1993. Michigan State University is an Affirmative Action/Equal Opportunity Employer. Women and minority candidates are particularly encouraged to apply.
Public Invitation to Participate in a New Research and Development Project on Broad Area Energy Utilization Network System (Eco–Energy City)

Announced by the New Energy and Industrial Technology Development Organization on October 1, 1993

In order to promote new energy technology, the New Energy and Industrial Technology Development Organization (NEDO) would like to inform all interested companies and research organizations regarding the research and development project described below.

Theme of the Research and Development Project
“Broad Area Energy Utilization Network System (Eco–Energy City)”

Outline of the Research and Development Work to be Entrusted
This project, entitled “Eco–Energy City”, will be implemented in order to establish technologies for the construction of a broad ranging and systematic energy network system, whose features are as follows:
1. High-efficiency recovery of relatively low-temperature waste and unused heat discharged from industrial sources.
2. Low-loss transportation of the recovered heat over long distances to residential and commercial consumption sites.
3. Supply of the recovered, transported heat to consumption sites in multi-functional ways depending on individual consumption patterns.

Procedures for Application
(1) Qualification Criteria
All companies or research organizations who meet the following qualification criteria may submit an application to participate in the above projects:
1. The applicant must have previous research and development experience in the field covered by or related to the project and possess the organizational structure, human resources and research facilities required to carry out the project work.
2. The applicant must be in sound financial condition and have the ability to manage its finances and facilities as necessary to smoothly carry out the project work.
3. The applicant must be able to comply with NEDO’s instructions, if such are necessary, to fully carry out the project work.
4. The applicant must have attended the explanatory meeting held by NEDO as set forth in item (2) below or been represented at the meeting by a responsible agent or representative who is capable of accurately conveying the contents of the meeting in detail.

(2) Explanatory Meeting
An explanatory meeting will be held on the date shown below in order for NEDO to fully explain the details of the project’s research and development work to be entrusted and the application documents to be submitted. All companies or research organizations who are interested in submitting an application to participate in the project are required to attend this meeting or to send an agent or representative to attend on their behalf. Japanese will be the only language used during the meeting.

Date: October 15, 1993
Time: 14:00 to 15:00
Place NEDO’s Head Office
Sunshine 60 Building,
30th Floor, Room 360
1-1, Higashi-Ikebukuro 3-Chome
Toshima-ku, Tokyo 170

(3) Further Information
For further information regarding the research and development work to entrusted under the above project, please contact NEDO by telefax as follows:
New Energy and Industrial Technology Development Organization
Contract Division, Accounting Department
28th Floor, Sunshine 60 Building,
1-1, Higashi-Ikebukuro 3-Chome
Toshima-ku, Tokyo 170 Japan
Telefax: 03-5992-1184
The University of San Diego (USD), Department of Biology, invites applications for a tenure-track position in PLANT SYSTEMATICS at the ASSISTANT PROFESSOR level. Preference will be given to applicants whose research employs molecular methods. Teaching responsibilities include courses in systematics and floristics, an upper-division core course for majors, and an introductory biology course. USD is an independent Catholic university whose primary aim is teaching excellence. Active scholarship by the faculty is considered essential to this aim, and the candidate is expected to maintain an active research program that has the potential for undergraduate involvement. Teaching experience is desirable. Submit curriculum vitae, a brief description of teaching philosophy and research interests, and names and addresses of three letters of reference to: Chair, Department of Biology, University of San Diego, 5998 Alcala Park, San Diego, CA 92110-2492; Telephone: (619) 260-4729. Women and minorities are particularly encouraged to apply. USD is an Affirmative Action/Equal Opportunity Employer.

University of North Carolina, Greensboro: The Department of Psychology invites applications for two tenure-track ASSISTANT PROFESSOR positions, one in Developmental Psychology and one in Cognitive Psychology. Candidates for these positions must have a Ph.D., have demonstrated promise of excellence in research, and be committed to teaching graduate and undergraduate students. Copies of curriculum vitae, representative publications and/or grants, and letters of reference should be addressed to: Dr. Richard Peck, Chair, Department of Psychology, UNC–Greensboro, Greensboro, NC 27412–5001 by December 31, 1993. Equal Employment Opportunity/Affirmative Action, W/N/V/D.

ASSISTANT PROFESSOR

The Department of Entomology at the University of Georgia invites applications for a tenure-track 9-month position beginning September 1994. Qualifications include: Doctoral degree in Entomology with a minimum of two years of postdoctoral experience, strong record of research productivity, and commitment to excellence in classroom instruction. Instructional responsibilities may include teaching both undergraduate and graduate courses in Entomology and a graduate course in area of specialty. Research area open; candidates expected to develop an externally funded program. Send curriculum vitae, statement of teaching goals and research interests, 2 to 3 key reprints, and arrange to have four letters of reference sent prior to the closing date, December 20, 1993, to: Search Committee, Department of Entomology, Franklin College of Arts and Sciences, University of Georgia, Athens, GA 30602. The University of Georgia is an Equal Opportunity/Affirmative Action Institution.

PLANT MOLECULAR BIOLOGY

Indiana University–Bloomington

The Department of Biology seeks to fill a faculty position at the level of ASSISTANT PROFESSOR in the area of plant molecular biology. Exceptional senior-level scientists will also be considered. Individuals working on molecular biology, biochemistry, or molecular genetics, who are interested in applying their research in molecular biology, genetics, or biochemistry, including the application of these approaches to problems in developmental or cellular biology, are encouraged to apply. A successful candidate will be expected to conduct a vigorous, independent research program and contribute to teaching. All interested candidates should submit a letter of interest and curriculum vitae to: The Search Committee, Department of Biology, Indiana University, Bloomington, IN 47405. Applications received before December 1, 1993, will be assured of consideration. To assure continued growth and development of the department, an Affirmative Action/Equal Opportunity Employer, and strongly encourages women and members of minority groups to apply.

POSITIONS OPEN

The University of Toledo seeks a highly qualified senior scientist for a tenure-track position at the Department of Medicinal and Biological Chemistry. The person selected will lead a new research group that has the potential to generate significant new research programs that will enhance the university's research and development efforts. Applicants should have a Ph.D. in Medicinal and Biological Chemistry or a closely related field. They must have a demonstrated ability to teach at the graduate level. The successful candidate will be expected to have a strong record of research productivity and to demonstrate the ability to obtain external funding. The position is open immediately. All candidates will be considered. The University of Toledo is an Affirmative Action/Equal Opportunity Employer.

FIELD FACULTY POSITION

The California Institute of Technology (Caltech), a private, non-profit research university with the mission of advancing knowledge, is seeking an Assistant Professor in the Department of Chemistry, starting July 1994. Applicants should have a Ph.D. in chemistry and demonstrate excellence in research and teaching. Preference will be given to candidates whose research addresses problems in chemical biology or other areas that interface with molecular biology or biochemistry. The successful candidate will be expected to develop an externally funded research program and to teach undergraduate courses. Applications should include (1) a curriculum vitae, (2) a statement of research interests, (3) a description of plans to secure funding, and (4) three letters of reference. To assure consideration, applications should be received by December 31, 1993. Caltech is an Equal Opportunity Employer.

POSITIONS OPEN

TOPICAL BIOCHEMISTRY

Indiana University–Bloomington

The Department of Biology seeks to fill a faculty position at the level of ASSISTANT PROFESSOR in the area of plant molecular biology. Exceptional senior-level scientists will also be considered. Individuals working on molecular biology, biochemistry, or molecular genetics, who are interested in applying their research in molecular biology, genetics, or biochemistry, including the application of these approaches to problems in developmental or cellular biology, are encouraged to apply. A successful candidate will be expected to conduct a vigorous, independent research program and contribute to teaching. All interested candidates should submit a letter of interest and curriculum vitae to: The Search Committee, Department of Biology, Indiana University, Bloomington, IN 47405. Applications received before December 1, 1993, will be assured of consideration. To assure continued growth and development of the department, an Affirmative Action/Equal Opportunity Employer, and strongly encourages women and members of minority groups to apply.

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**PROFESSOR OR ASSISTANT PROFESSOR**
The Section of Cell Growth, Regulation and Oncogenesis, Duke Comprehensive Cancer Center, Duke University Medical Center, invites applications for positions at the level of either Professor or Assistant Professor. Research within the Section is focused on the genes and biochemical pathways that regulate cell growth and the molecular analysis of the disruption of such controls in cancer cells. Investigators working at the molecular level on signal transduction, oncogenes/anti-oncogenes, angiogenesis, metastasis and apoptosis are especially encouraged to apply. Applicants seeking a tenure-track assistant professorship must have a doctoral, at least 2 years of postdoctoral training and must have demonstrated high potential for imaginative independent research. Successful candidates will also be appointed into a basic science department within the Medical Center. Applicants for a tenured professorship position need send only a letter expressing interest, curriculum vitae and list of publications. All inquiries will be held in confidence. Applicants for an assistant professorship should send curriculum vitae, a brief description of present and proposed research and arrange for three or more letters of recommendations to be forwarded to: Dr. Robert M. Bell, Head, Section of Cell Growth, Regulation and Oncogenesis, Duke Comprehensive Cancer Center, Box 3686, Durham, NC 27710. To be assured of full consideration, the application should be received by November 8, 1993.

*Duke University Medical Center*

**POSTDOCTORAL FELLOWSHIPS**
St Jude Children's Research Hospital, a premier research center for catastrophic diseases of childhood and biomedical research, offers the GEORGE J. MITCHELL and RICHARD A. GEPHARDT ENDOWED FELLOWSHIPS IN BASIC SCIENCE RESEARCH. The fellowships were established by the American Lebanese Syrian Associated Charities/ St. Jude Children's Research Hospitals Board of Governors and Directors in honor of Mr. Mitchell and Mr. Gephardt's contributions to the political life of the nation.

The fellowships are open to junior investigators with an M.D., Ph.D., D.V.M. or Pharm.D. degree who seek training experience in one of the specialty areas of laboratory biomedical research available which include: biochemistry, experimental oncology, experimental hematology, infectious diseases, genetics, immunology, pharmaceutical sciences, molecular pharmacology, tumor cell biology and virology/molecular biology.

Fellowship awards are made for up to three years and are based on merit, recommendations and promise of a productive career in biomedical research. Stipends are highly competitive.

Applicants should provide a curriculum vitae, a brief description of their research interests and have three references, send letters of reference to:

**Christian C. Patrick, M.D.**
Department of Infectious Diseases
St. Jude Children's Research Hospital
PO Box 318 • Memphis, TN 38101-0318 USA

All information must be received by 1 January, 1994. Award notification will be 1 February, 1994, with a beginning date thereafter.

*An Equal Employment/Affirmative Action Employer*

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**PARALLEL PROCESS, UNPARALLELED PROGRESS.**

Vertex Pharmaceuticals, Inc. is a leader in the use of structure-based rational drug design, a scientific approach to drug discovery which uses atomic level information to design synthetic compounds that interact with protein targets involved in disease processes. Vertex is using advanced techniques of biology, chemistry and biophysics to create novel, small molecule compounds that have the potential to be orally deliverable drugs to treat major human disease. Vertex is concentrating on the development of drugs in the areas of immunology, inflammation and antiviral therapy.

Currently we are seeking a Ph.D. research scientist for our Protein NMR group. Using a variety of multidimensional NMR techniques, the successful candidate will examine the solution structure and dynamics oftherapeutically relevant target proteins and protein/ligand complexes, and will play a key role in the development of small molecule therapeutics within a multidisciplinary effort in structure-based drug design. Candidates with two or more years of postdoctoral experience in the application of multidimensional NMR methods to biological systems, or with a strong background in design and implementation of pulse NMR experiments, NMR hardware design/modification, or application of pulsed field gradient techniques are encouraged to apply.

Our facilities include several dedicated high-field NMR spectrometers equipped for triple resonance, as well as excellent computational resources for data processing, structure refinement, and molecular visualization.

Candidates will have the opportunity to interact with a diverse group of scientists, including X-ray crystallographers, computational chemists, and medicinal chemists. An eagerness and ability to apply insights from biology, structural biophysics and computational chemistry to the process of drug design is essential.

With our resourceful approach to structure-based rational drug design and a strong financial base, we invite you to take advantage of our excellent salaries, benefits and professional development potential. Please send c.v., list of publications, and the names of three persons from whom references may be solicited to: Vertex Pharmaceuticals Incorporated, c/o Recruiting Coordinator, CV10/93, 40 Allston Street, Cambridge, MA 02139-4211. We are an Equal Opportunity Employer.

*PROFESSOR, BIOCHEMISTRY*

St. Jude Children's Research Hospital invites applications for a Professor of Biochemistry. Applicants must have an M.D., Ph.D., or equivalent degree, and demonstrate research excellence in the area of biochemistry. This position requires a strong demonstrated record of accomplishment in research and teaching, and a commitment to the medical education mission of the hospital. Candidates should have a strong publication record and a strong commitment to graduate and medical student training. The successful candidate must demonstrate a history of high-quality collaborative research with academic scientists. Applications will be accepted until December 31, 1993. Submit a letter of application, curriculum vitae, and list of publications to: Dr. Robert M. Bell, Head, Section of Cell Growth, Regulation and Oncogenesis, Duke Comprehensive Cancer Center, Box 3686, Durham, NC 27710. Applicants are encouraged to include the names and addresses of three references.

*An Equal Opportunity Employer,*

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**MRC Group in Protein Structure and Function Faculty Position in Protein Chemistry**

The Medical Research Council of Canada Group in Protein Structure and Function at the University of Alberta invites applications for membership in the Group and an associated Faculty position in the Department of Biochemistry. Applicants should have a strong background in protein chemistry and will be expected to develop a research project that will complement and contribute to the overall research efforts in the Group. Some areas currently under investigation by the Group include: conformational and structural biology of contractile proteins of both muscle and non-muscle systems and the molecular mechanism by which calcium triggers muscle contraction; structure-function relationships of calcium binding proteins; mechanistic studies of aery and apolipoprotein enzymes, and of lipases, cholesterol esters, and enzymes involved in fatty acid synthesis pathways, through the establishment of their high resolution X-ray structure and protein phosphatases as intracellular targets for tumor promoting toxins. Preference in the selection process will be given to those individuals who have a background in any of the following areas: computational techniques, molecular biological approaches to protein structure-function, spectroscopic approaches, or mass spectrometry of proteins. Appointments can be made at any level from Assistant to Full Professor depending upon the qualifications. Salary for Assistant Professor (Min. $40,035); Associate Professor (Min. $49,593); and Professor (Min. $61,813).

The MRC Group in Protein Structure and Function was established in 1974 and has undergone three successful renewals. The major techniques of protein chemistry are included in the armament used by the group members for the study of protein systems: hydrodynamic and spectroscopic methods, nuclear magnetic resonance spectroscopy, X-ray crystallography, solid phase synthesis of peptides, recombinant DNA technology and protein engineering. There is also a close association of the MRC Group with the Alberta node of the Protein Engineering Network Centre of Excellence (PENCE) which has complementary as well as unique facilities.

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents. The deadline for the position is November 3rd. Applications should forward curriculum vitae, list of publications and names of three referees as soon as possible to:

**Professor Brian D. Sykes**
Department of Biochemistry
University of Alberta
Edmonton, Alberta, Canada, T6G 2H7

The University of Alberta is committed to the principle of equity in employment. The University encourages applications from aboriginal persons, disabled persons, members of visible minorities and women.
PennState
Pre and Postdoctoral Positions
Department of Microbiology and Immunology
Pennsylvania State University College of Medicine at Hershey

The Department of Microbiology and Immunology invites applications from qualified individuals for several funded predoctoral and postdoctoral positions. Availability of expanded research facilities, well established departmental and interdepartmental training programs, and macromolecular synthesis core facilities contribute to a strong and interactive training environment. The research interests of the faculty cover a wide variety of important problems in virology, immunology, oncology, and cell and molecular biology. The faculty and their research interests include the following.

- Michael Chorny: Molecular structure of the major histocompatibility complex
- Richard Courtnay: Molecular studies of herpes simplex virus proteins and glycoproteins
- John Goldman: Immune regulation of host defense mechanisms, viral immunity
- Margaret Goldman: Immune regulation of biosynthesis of macrophage products - both host and virally encoded proteins
- Mary K. Howard: Molecular biology of human papillomavirus infection of human tissue xenografts
- Harriet Ioson: Regulation of hepatocyte growth and gene expression; molecular studies of guinea pig cytomegalovirus and hepatitis B virus
- Sebastian Joyce: Immunobiology of organ-specific autoimmune diseases and tumor immunity
- Michael Katzman: Mechanism of retroviral integration; characterization of the integration reaction for the human immunodeficiency virus
- John Kreider: Human papillomaviruses; immunology and treatment
- Craig Meyers: Papillomavirus cell interactions and oncogenicity
- David Spector: Molecular mechanisms of adenovirus and human cytomegalovirus gene transcription
- Richard Tenser: Herpes simplex virus infection and latency in sensory ganglion neurons
- Mary J. Tevedta: Genetic and molecular studies of transformation by SV40 T antigen
- Srirat Tevedta: Molecular basis for recognition of tumor antigens by cytotoxic T lymphocytes
- Michael Verderame: Molecular mechanisms of neoplastic transformation by the oncogene v-src; role of receptor protein kinases in development
- Brian Wigdahl: Molecular characterization of cellular and viral gene products involved in the neuropathogenesis of herpes simplex virus and retroviruses
- John Wills: Molecular analysis of the retrovirus budding mechanism (viral and host components)

Applications or inquiries for additional information should be sent to Dr. Richard Courtnay, Professor and Chair, Department of Microbiology and Immunology, The Pennsylvania State University College of Medicine, Post Office Box 850, Department 30L, Hershey, PA 17033. We are an Equal Opportunity/Affirmative Action Employer and encourage minority and female applicants to apply.

University of Illinois
at Urbana-Champaign
Dean
College of Liberal Arts and Sciences

The University of Illinois at Urbana-Champaign invites nominations and applications for the position of Dean of the College of Liberal Arts and Sciences. The Dean is the chief executive officer of the College and reports to the Vice Chancellor for Academic Affairs and the Chancellor. The Dean implements College educational policy, as set by the faculty of the College according to its procedures of governance. The College’s 700 faculty members instruct 11,500 undergraduate students and 3,300 graduate students in more than 40 units.

Qualifications include outstanding academic accomplishment and demonstrated academic leadership; administrative, budgetary, and fund-raising skills; and commitment to the values of liberal education and to affirmative action.


Dean William R. Schwallier, Chair Search Committee for the Dean of the College of Liberal Arts and Sciences
Swanlund Administration Building
601 East John Street
Champaign, Illinois 61820

Attention: Linda Rodriguez
Telephone: (217) 333-4323
FAX number: (217) 344-5639

The University of Illinois at Urbana-Champaign is an equal opportunity/affirmative action employer.

Wright State University
Chair-Department of Biological Sciences

Wright State University College of Science and Mathematics invites applications and nominations for Chair, Department of Biological Sciences. The University is a comprehensive public university with an enrollment of over 17,000. The Biological Sciences Department includes 20 full time faculty, over 400 undergraduate majors and 40 graduate students. It offers bachelor degrees in biological sciences, medical technology and environmental health, and the master of science degree in biological sciences. Many faculty are active participants and several graduate students are enrolled in the interdisciplinary Biological Sciences Ph.D. program.

Candidates must have the capability and desire to provide strong leadership in research and undergraduate/graduate education. We expect candidates to have a record of scholarship commensurate with the rank of full professor and to have a strong record of funded research. Relevant areas include molecular/cellular biology, environmental/organismic biology, medical technology, toxicology and environmental health. Opportunities for collaboration with other life sciences departments (Anatomy, Biochemistry and Molecular Biology, Microbiology and Immunology, and Physiology and Biophysics) as well as the WSSU School of Medicine are available.

A letter of application and a resume including a brief statement of research interests and names of at least 3 references should be submitted to:

Chair, Search Committee
Department of Biological Sciences
Wright State University
Dayton, OH 454335

Review of applications will begin November 15, 1993 and continue until the position is filled. Wright State University is an equal opportunity/affirmative action employer. The Biological Sciences Department is particularly interested in increasing the number of qualified female applicants.

Chair
Department of Pharmacology
Columbia University College of Physicians and Surgeons

Applications are sought for the position of Professor and Chair of the Department of Pharmacology. We are seeking an individual with a distinguished record of accomplishment within the broadly defined area of pharmacological research who will lead the educational and research efforts of the Department. The Department of Pharmacology has an active research program, and the new Chair will have the opportunity to recruit additional faculty to expand the areas covered by the Department. The Chair will be responsible for the overall direction of an active Ph.D. program as well as the education of medical and dental students.

Applications should include a complete resume and the names and addresses of three references.

Please send replies to:
Dr. Frederick R. Maxfield, Chair
Pharmacology Search Committee
Department of Pathology
Columbia University
630 West 168th Street
New York, NY 10032

Columbia University is an equal opportunity/affirmative action employer. Applications from women and minorities are encouraged.
Max-Planck-Institute for Biochemistry
Martinsried/Munich

Research Unit to be headed by Junior Scientist

The Max-Planck-Institute for Biochemistry has an opening for a group leader position in the field of molecular structural biology.

Areas of research favored by the Institute include:
- mechanisms of protein folding and assembly of macromolecules
- novel methods of structural analyses with x-ray and electron crystallography, magnetic resonance and mass spectrometry
- FTR and the dynamics of protein structures
- near field microscopy and surface structures

The successful candidate should have several years of postdoctoral experience and an outstanding record of achievement in one of these or related research areas. The available position represents a five year appointment at a level equivalent to associate professor (C3). Appropriate laboratory space, funds for laboratory set-up and operation, and additional salaries for one Ph.D. level scientist and two technicians will be guaranteed; fellowships for postdoctoral fellows and graduate students are subject to negotiation. The group will have access to the computing center and the infrastructure of the Institute.

Candidates should submit their curriculum vitae, a list of publications, a short description of their future research objectives, and the names of three scientists familiar with the candidate’s research accomplishments and scientific potential to the Managing Director of the Max-Planck-Institute for Biochemistry, Dr. G. Gerisch, D-82152 Martinsried, Germany. The application deadline is November 15, 1993.

HUBBLE FELLOWSHIP PROGRAM OFFICE
Space Telescope Science Institute
3700 San Martin Drive
Baltimore, MD 21218

NS/SCEx: 65596:FELLOWS
NET: H ELLOWS@STSCIL.EDU@INTERBIT.BITNET
INTERNET: H ELLLOWS@STSCIL.EDU

The Space Telescope Science Institute announces the continuation of the Hubble Fellowship Program in cooperation with astronomical institutions throughout the United States. The main objective of the Program is to provide recent postdoctoral scientists of unusual promise and ability, opportunities for research on problems (largely of their own choosing) that are related to the Hubble Space Telescope science and compatible with the interests of the host institutions. The program is open to scientists of any nationality who have earned their doctorates after January 1, 1991, in astronomy, physics, or related disciplines.

The duration of the fellowship is for a total of three years, which includes an initial appointment of two years and an extension to a third year, contingent on a positive mid-term review. Contingent on funding from NASA, up to 16 new Hubble Fellows will be supported this year by grants to United States institutions.

The Announcement of Opportunity, including the application instructions, may be obtained from the above address.

The application deadline is November 19, 1993. The new Hubble Fellow appointments are expected to begin on September 1, 1994. Minorities and women are strongly encouraged to apply.

EDO/AA/MF/FMV

LOYOLA UNIVERSITY
CHICAGO
MEDICAL CENTER

FACULTY POSITIONS
CANCER CENTER

Molecular Oncology

Associate and Assistant Professor faculty positions are being recruited to contribute to this program led by Dr. Manuel Diaz.

Viral Oncology

Dr. Lutz Gissmann is seeking Associate and Assistant Professor level faculty to lead projects in this program area.

Drug Resistance

This program, led by Dr. Leonard Erickson, is seeking applications for Associate and Assistant Professor level faculty. Interested applicants should submit a current Curriculum Vitae, three professional references, and a description of current and future research, with funding history, to the address below by November 1, 1993.

Loyola University Chicago is an equal opportunity employer/educator.

Richard J. Fisher, M.D., Director
Leonard C. Erickson, Ph.D., Associate Director
Loyola University Cancer Center
Bldg. 105 – Room 3951
2160 South First Ave., Maywood, IL 60153

Roche Institute of Molecular Biology
ASSOCIATE SCIENTIST

Hoffmann-La Roche has an opportunity available at the Roche Institute of Molecular Biology for an Associate Scientist to be part of a team studying regulation of the eukaryotic cell cycle.

The qualified candidate will have a strong background in molecular biology and experience in, and proficiency with, relevant techniques for molecular analysis of DNA and RNA, subcloning and PCR. A BS/MS in Biology, Biochemistry or Molecular Biology and 2-3 years related laboratory technician experience are required. Additional experience in protein expression/purification and/or cell culture would be advantageous.

We offer an attractive salary and a comprehensive benefits package. To apply, please send resume and salary history/requirements to: Joanna Harrington, Staffing Department JH173JG, Hoffmann-La Roche Inc., Nutley, NJ 07110-1199. An equal opportunity employer.
POSITIONS OPEN

CHAIRPERSON, DEPARTMENT OF MEDICAL MICROBIOLOGY AND IMMUNOLOGY, COLLEGE OF MEDICINE, THE OHIO STATE UNIVERSITY, Department of Medical Microbiology and Immunology, College of Medicine, the Ohio State University invites both nominations and applications for the position of Chairperson. Deadline: October 31, 1993.

Candidates should hold the Ph.D. and/or M.D. degree, be committed to a balanced, vigorous teaching and research program that demonstrates excellence in research and scholarly activities, and possess proven leadership qualities.

Nominations and/or applications should include curriculum vitae with bibliography and the names of at least three references. Reviews of candidates will begin November 1, 1993, and continue until the position is filled. Salary is negotiable.

Address applications to: James S. King, Ph.D., Chairperson, Medical Microbiology and Immunology Search Committee, The Ohio State University, Department of Cell Biology, Neurobiology and Anatomy, The Ohio State University, 4066 Graves Hall, 333 West 10th Avenue, Columbus, OH 43210. The Ohio State University is an Equal Opportunity Employer.

USDA-Agricultural Research Service, Arthropod-Borne Animal Disease Research Laboratory, Laramie, Wyoming, (located on the campus of the University of Wyoming) is seeking a scientist as PERMANENT MEDICAL OFFICER, (GM-12/3/14/1) to do research on arboviral diseases and their animal hosts. Incumbent will develop an independent program and participate in animal virology, genetics, and entomology. Candidates must have a D.V.M. or equivalent degree, plus one year of professional veterinary experience. The position leads to the next lower grade level in the federal government. Applicants with a Ph.D. degree and publications in the applicable areas are encouraged to apply. Research experience in virology, microbiology, immunology, molecular biology, and pathology, and skill in surgical procedures are required. Knowledge of arbovirology, epidemiology, molecular biology, virology, genetics, and entomology, and skill in experimental design and statistical analysis are desirable. Salary: $38,861 to $70,987 per annum commensurate with experience. For further information contact: Dr. Walter J. Tabachnick, Research Leader, Telephone: 307-766-3600. For application procedures/forms, call or write to: Cathleen Emmons, USDA, ARS, IR-6, 3005 Ivy Lane, Room 318, Greenbelt, MD 20770-1438. Telephone: 301-344-3138. Applications must be postmarked on or before December 1, 1993. An Equal Opportunity Employer.

POSTDOCTORAL POSITION is available immediately to study the role of heat shock proteins in the regulation of animal and plant stress responses. The position will be given to a postdoctoral scientist with a Ph.D. degree in molecular biology or related fields with a strong background in molecular biology or protein chemistry. Send curriculum vitae, a statement of research interests and experience, and names and telephone numbers of three references to: Dr. Robert L. Marks, Department of Biochemistry and Molecular Biology, 246 NRC, Oklahoma State University, Stillwater, OK 74078-0454. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION available immediately to study the role of inflammatory cytokines in the regulation of vascular smooth muscle function and vascular pathophysiology. Background in cell and molecular biology desirable. Please send curriculum vitae, a statement of research interests and the names of three references to: Debbie Beadle, Ph.D., Box 172, Department of Medicine, Tufts New England Medical Center, 750 Washington Street, Boston, MA 02111. An Equal Opportunity Employer.

POSTDOCTORAL POSITION available with USDA to study the molecular biology and genetics of blister rust disease in eastern white pine. Candidates must have a Ph.D. degree in molecular biology or molecular biology. U.S. citizenship is required. Send resume, publications, and names of three references to: Dr. Charles P. Craig, Jr., USDA, Forest Service, POB 898, Rhinelander, WI 54501. Telephone: (715) 362-1112. An Equal Opportunity Employer.

FACULTY POSITION UNIVERSITY OF MARYLAND AT COLLEGE PARK

The Department of Microbiology invites applications for a tenure-track position in the area of medical molecular biology. The department is particularly interested in candidates examining basic questions on the function and significance of body proteins in disease and the development of new diagnostic tools in the use of disease models to develop new therapies. Applicants are encouraged to suggest research projects in the area of infectious diseases, molecular biology, and biotechnology that will contribute to the university’s ongoing research efforts. Reviews of applications will begin on November 1, 1993, and continue until the position is filled. Salary is negotiable. Address applications to: Dr. Diane J. Collier, Committee, Department of Microbiology, University of Maryland, College Park, MD 20742. Review of applications will begin on December 10, 1993 and continue until a suitable candidate is identified.

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

FACULTY POSITION IN DEVELOPMENTAL BIOLOGY. The Department of Embryology of the Carnegie Institution of Washington seeks a faculty mem-

ber with a nascent or established research program in any aspect of developmental biology. The Department of Embryology is part of a nonprofit research institution (Carnegie Institution) and is affiliated with and is situated on the campus of the Johns Hopkins University in Baltimore. Applicants should send curriculum vitae, letters of recommendation, and a statement of research interests to: Dr. Robert C. Anderson, Associate Director, Carnegie Institution of Washington, 915 West University Parkway, Baltimore, MD 21210. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION IN EXPERIMENTAL ONCOLOGY

St. Jude Children’s Research Hospital

Memphis, Tennessee

A postdoctoral position is available to participate in an ongoing research program aimed at elucidating the roles of cytokine- and FKB-kinase-binding proteins in signal transduction. Current investigation focuses on the identification of novel endogenous immunophilin ligands using the yeast two-hybrid system, and elucidation of protein function by biochemical and reverse genetic assays. Applicants with a Ph.D. and/or M.D. degree interested in joining a multidisciplinary group applying techniques of molecular biology, biochemistry, and yeast genetics to study the regulation of signal transduction in human cancer cells are encouraged to apply. Send curriculum vitae, a brief statement of research interests, and names and telephone numbers of three references to: Dr. Richard Braam, Department of Experimental Oncology, St. Jude Children’s Research Hospital, 332 North Lauderdale, Memphis, TN 38101. An Equal Opportunity/Affirmative Action Employer. We provide a smoke-free environment.

POSTDOCTORAL POSITION

Position available immediately for research scientist to study molecular mechanisms that control pigmentation by “co-suppression” of endogenous homologous genes. Different epistates respond to different morphological signals. Genetic changes (1) transgenic gene promoter elements responsive to morphological information (2) nuclear factors mediating this response and (3) molecular basis of interactions. For information, contact: Dr. John Lezcano, Tel. 914-441-2000 ext 213. Location: University of Kentucky, Lexington, KY 40506-0294.

POSTDOCTORAL POSITION

Molecular Immunology

JUNIOR AND SENIOR FACULTY POSITIONS AVAILABLE

The Department of Microbiology and Immunology invites applications for multiple junior and senior level, tenure-track positions focusing on the molecular analysis of significant problems in immunology. Senior candidates should have strong records of research accomplishments and sustained program development. Junior candidates will be expected to develop high-quality, independent research programs with long-term potential and strong publications, which emphasize quality rather than quantity, including medical, dental and graduate students. The Department offers a high-quality, high-visibility environment with 40% of the faculty holding active extramural research grants. A large Center of Excellence grant has resulted in establishment of a Molecular Resource Center within the Department. For further state of the art information contact Dr. T. Seals, Department of Biology, University of California, Los Angeles. Application: should submit curriculum vitae, copies of several recent publications, a brief statement of future research goals and three letters of reference to be sent to: Dr. Terrance G. Cooper, Department of Microbiology and Immunology, The University of Tennessee, Memphis, 868 Madison Ave, R01 Memphis, Tennessee 38163

The University of Tennessee, Memphis is an Equal Employment Opportunity/TITLE IX/SECTION 504/ADA Employer.

POSTDOCTORAL POSITION available immediately in well-funded laboratory in Vancouver, Canada, to study the mechanism of dimerization of retroviral gpr proteins. Individuals with a molecular biology or virology background in the biochemistry or molecular biology of RNA are encouraged to apply. Send curriculum vitae and three references to: Dr. D. Seals, Department of Chemistry, Simon Fraser University, Burnaby, B.C., Canada V5A 1S6.

POSTDOCTORAL POSITION—PLANT MOLECULAR EPICENTERS. Petunia flower pigmentation patterns as model system for morphological pattern determination. Employed will conduct experiments using transgenic and bimorphic pigmentation by “co-suppression” of endogenous homologous genes. Different epistates respond to different morphological signals. Genetic changes (1) transgenic gene promoter elements responsive to morphological information (2) nuclear factors mediating this response and (3) molecular basis of interactions. For information, contact: Dr. John Lezcano, Tel. 914-441-2000 ext 213. Location: University of Kentucky, Lexington, KY 40506-0294.

POSTDOCTORAL POSITION—HUMAN MOLECULAR GENETICS

Analysis of the spontaneous mutational process in humans and animals. Projects may explore the implication of spontaneous mutation for disease causation or for evolution. The factor IX and p53 genes are the major models for study of human spontaneous germline and somatic mutation, respectively. The relationship between somatic mutation and both cancer and neurodegenerative disease is being explored with the aid of transgenic mouse systems. Recent topics include: “Assessing the underlying pattern of human germline mutations: lessons from the factor IX gene,” FASEB J. 7: 2676-2687. Applications should submit curriculum vitae, reprints of 1 to 3 papers, and names of three references to: Steve S. Sommer, M.D., Ph.D., Department of Biochemistry and Molecular Biology, University of Rochester, 1035 Medical Center, Rochester, MN 55905. Mayo Foundation is an Affirmative Action and Equal Opportunity Educator and Employer.

MOLeCULAR PARASITOLOGY

POSTDOCTORAL

To study (a) Glycosylphosphatidylinositol (GPI) phospholipase C in metabolism of GPI in Trypanosoma cruzi and Leishmania, or (b) Mutational analysis of kinetoplastid kappa cytoskeleton: a cellular and molecular cloning skills required. Previous experience with parasite biology not required. Send curriculum vitae and 3 letters of recommendation to: Dr. Larry D. Brown, Department of Parasitology, 724 BioSciences Building, University of Georgia, Athens, GA 30602.
**BRAIN IMAGING RESEARCH OPPORTUNITIES**

The Neuroimaging and Drug Action Section, Addiction Research Center, National Institute on Drug Abuse (NIDA) of the National Institutes of Health (NIH) has opportunities in the area of medical imaging processing for research fellows under the Intramural Research Training Award (IRTA) and/or research associates under the Postdoctoral Research Associateship Program conducted by the National Research Council (NRC). The research involves developing new modalities for analysis of medical images (PET and MRI), including image registration techniques and statistical analysis of change distributions. The applicant will join an established PET team using components of the NIH Multidisciplinary Image Processing System (MRIPS) to implement analysis algorithms. A Ph.D. in Physic or Electrical Engineering, with a strong background in computerized image processing is required. To qualify for the position, the applicant may have no more than five years relevant post-doctoral experience. Salary is commensurate with experience. Opportunities at NIH are open to all citizens of the United States and to foreign nationals who hold an Immigrant (Permanent Resident) Visa. The environment is smoke-free and drug-free. To apply, send a curriculum vitae, summary of research interests, publication list, and names of four scientists who can provide reference of scientific work to:

Dr. Edythe D. London, Ph.D.
NIH, NIDA
Addiction Research Center
P.O. Box 5180
Baltimore, MD 21224

NIH is an Equal Opportunity Employer.
The Gillette Medical Evaluation Laboratories, a division of the Gillette Company, is seeking a scientist to head our in vitro alternatives development program.

Cell Biologist

This program is currently researching in vitro methods in ocular toxicology but will also explore other areas of Company interest. Its mission is to develop reliable procedures that can be used to test Company products for medical safety. Responsibilities will include coordinating ongoing activities and proposing, planning, and executing new research projects. This is a hands-on position requiring excellent communication skills and the ability to publish and present scientific data in various forums.

Qualified candidates will have a Ph.D. in cell biology/cell physiology, and proficiency in techniques for the immortalization and characterization of new cell lines. A successful track record of collaborations with other investigators is desired. Experience in epithelial cell biology, mechanisms of inflammation and immunology is a plus.

The Gillette Medical Evaluation Laboratories is located in a modern facility, outside of Washington, D.C., in an area rich in government, academic, and industrial scientific laboratories. Gillette offers excellent compensation, a generous benefits package and an opportunity for career growth. For consideration, please submit your resume to:

Gillette Medical Evaluation Laboratories
401 Professional Drive
Gaithersburg, MD 20879
An Equal Opportunity Employer

PHYSICIAN RESEARCH DIRECTOR

Excellent opportunity to be the Medical Director of a clinical research program for the person capable of initiating and managing a research program limited to women's diseases. You will be associated with one of the largest nonprofit women and infants' specialty hospitals with a newly established research division. Researcher must have demonstrated success in receiving grants and contracts with NIH or other federal agencies. Opportunities exist to collaborate with other researchers in the region including New Orleans, Houston, and Birmingham, as well as on-going research projects with Bowman-Gray and other institutions. Live in a university city of 450,000 with many cultural amenities, other major research institutions and mild winters.

Please submit curriculum vitae, a statement of research background and interests, a list of projects completed with sources of funding and dollar value, salary expectation, and date of availability. Compensation package attractive and flexible. Please respond by December 15 to: Phyllis Greenblatt, Research Director, Women's Hospital, Post Office Box 95009, Baton Rouge, Louisiana 70895-9009.

Equal Opportunity Employer

W. M. Keck Foundation Graduate Fellowships
University of Colorado at Boulder

The University of Colorado at Boulder and the Center for the Study of Earth from Space (CSES)/CIRES are offering two fellowships for the academic year 1994-1995 to first-year graduate students with degrees or strong backgrounds in physics, mathematics, or chemistry to pursue studies in interdisciplinary earth sciences in the Departments of Geological Sciences, Geography, or Environmental, Population, and Organismic Biology. Applicants must have a strong analytical training, proven scholarship, and demonstrated interest in pursuing a Ph.D. with a focus in global change research.

Research should address a broad range of questions from a theoretical point of view or experimentally with techniques such as remote sensing.

Stipends include tuition and half-time financial support for 12 months. Applications for entrance to the graduate program and for the W. M. Keck Foundation Fellowships should be addressed to one of the above departments at the University of Colorado at Boulder, Boulder, Colorado 80309. The deadline for receipt of applications is January 15, 1994.

For further information, address inquiries to: Professor Alexander F. E. Goetz, Director, Center for the Study of Earth from Space, Campus Box 449, University of Colorado at Boulder, Boulder, CO 80309-0449.

The University of Colorado, Boulder, has a strong institutional commitment to the principle of diversity. In that spirit, we are particularly interested in receiving applications from a broad spectrum of people including women, members of ethnic minorities and disabled individuals.

Principal Scientists

IOLAB Corporation, a Johnson & Johnson Company and leader in ophthalmic research and development, is currently expanding its operations in the area of ocular pharmacology. We are seeking superior candidates for the position of Ocular Pharmacologist to work in our Pharmacology/Toxicology facility, located in Southern California.

Under the supervision of the Director of Pharmacology/Toxicology, you will be responsible for research activities in the Glaucoma Ocular Pharmacology Program. This will include the development of model systems and assays to test anti-glaucoma compounds.

This position requires a Ph.D. in Pharmacology or related field, with a minimum of 3 years pharmacology experience in industry. Ocular pharmacology experience is preferred, but cardio-vascular or central nervous system is acceptable. Candidates must possess strong written and verbal presentation skills for internal and external dissemination of scientific data.

We are an equal opportunity employer and take pride in our commitment to diversity in staffing. We encourage women, minorities, veterans and disabled individuals to apply. For consideration, submit your resume to: Human Resources, IOLAB Corporation, 500 Iolab Drive, Claremont, CA 91711.

THE FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS invites applications for the post of AGRICULTURAL INDUSTRIES OFFICER (Biotechnology) at its Headquarters in Rome - Italy.

Responsibilities: To plan, coordinate and monitor activities in small-scale agro-industries with a particular emphasis on biotechnology, renewable energy, and residue utilization; to advise Member Countries on their needs in related technical areas and to provide required technical input to relevant activities and technical backstopping of field projects.

Requirements: University degree in related science and technology including biotechnology and/or renewable energy. At least 7 years' progressively responsible professional experience with national or international organization or industry in a related technical field. Working knowledge of English or French.

Postdoctoral Research Fellow
Neurological Disorders

The Neuroscience Pharmacology Department of PARKE-DAVIS Pharmaceutical Research Division, Warner-Lambert Company, seeks a self-motivated individual to study the structure and function of metabotropic glutamate receptors.

In addition to a PhD, candidates should have a sound background in both molecular and cell biology in order to clone and stably express metabotropic glutamate receptors for in vitro experiments and to perform site-directed mutagenesis studies. They should have a strong desire to learn biochemical techniques (e.g., receptor binding and measurement of second messengers), and must possess good communication skills and the ability to work in a team-oriented setting.

Interested individuals should send their resume and list of references to Box JDM-96, Human Resources Department, PARKE-DAVIS Research Division, Warner-Lambert Company, 2800 Plymouth Road, Ann Arbor, MI 48105. "Smoke-Free Work Environment"

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The Neurosciences Institute (NSI), an independent not-for-profit organization at the forefront of research on the brain, invites applications for positions in theoretical and experimental neurobiology. The NSI is also the home of the Neurosciences Research Program and serves as an international meeting place for neuroscientists; Fellows have opportunities to interact with visitors from many institutions worldwide. The NSI is now located on the campus of The Scripps Research Institute in La Jolla, California, where new buildings will be completed in the autumn of 1994.

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Theoretical Neurobiology

Applications are invited for positions as Institute Fellow in Theoretical Neurobiology. Since 1987, the NSI has had a research program dedicated to developing biologically based, experimentally testable theoretical models of neural systems. Current projects include large-scale simulations of neuronal networks, the design of behaving automata, and detailed formulations of biologically based models of perceptual systems. Advanced supercomputer facilities are available. Institute Fellows will be encouraged to interact with Fellows in Experimental Neurobiology.

Applicants should be at the postdoctoral or assistant professor level with strong backgrounds in experimental or theoretical neuroscience or related fields. Experience in computer modeling is especially welcome.

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Experimental Neurobiology

Applications are invited for positions as Senior Fellow and Junior Fellow in Experimental Neurobiology. The NSI is beginning a research program in experimental neurobiology designed to increase understanding of brain process at several organizational levels from the molecular to the cognitive. After completion of new NSI laboratory facilities in the autumn of 1994, research will be carried out in such areas as molecular biology, cellular neurobiology, pharmacology, neuroanatomy, functional brain imaging, and psychophysics. Fellows in Experimental Neurobiology will be expected to take advantage of opportunities for scientific exchanges with Fellows in Theoretical Neurobiology.

Applicants should be at the assistant professor (Senior Fellow) or postdoctoral (Junior Fellow) level and should have backgrounds in experimental neurobiology. Senior Fellows will be provided with adequate financial support to equip laboratories and maintain ongoing independent research programs. Starting dates for these positions will be autumn 1994 or thereafter.

All Fellows will receive stipends appropriate to their qualifications and experience. Candidates should send a short statement of research interests, a curriculum vitae, and the names of three references to: Dr. Gerald M. Edelman, Director, The Neurosciences Institute, 3377 North Torrey Pines Court, La Jolla, California 92037.

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CELL/ MOLECULAR BIOLOGIST

An Assistant/Associate Professor position is available in the Department of Cell Biology and Anatomy at Cornell University Medical College. The candidate should establish a strong research program in epithelial or neuronal cell or developmental biology, including areas such as intracellular signalling, protein sorting, organellar biogenesis, adhesion, cell transformation and epithelial-mesenchymal interactions. Excellent space and start-up resources are available. Numerous opportunities for collaborations exist with basic science and clinical faculties at New York Hospital-Cornell Medical Center and with investigators at neighboring institutions, Memorial Sloan-Kettering Cancer Center and the Rockefeller University. Teaching in one of the major medical and graduate courses is a responsibility of this position.

Interested applicants should send a C.V. statement of interests and three letters of reference to: Enrique Rodriguez-Boulan, Chairman of Search Committee, Department of Cell Biology and Anatomy, Cornell University Medical College, 1300 York Avenue, New York, NY 10021. Fax: 212-749-5360. E-mail: Boulan@med.Cornell.edu. Deadline for application submission: November 15, 1993. Cornell University Medical College is an equal opportunity employer. Under represented minority applicants are encouraged.

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THE NEUROSCIENCES INSTITUTE
La Jolla, California

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CORNELL UNIVERSITY
MEDICAL COLLEGE
POSTDOCTORAL POSITIONS in Biochemistry. The Microbiological and Immunological Chemotherapeutic Laboratory at the University of Wisconsin-Madison is currently seeking postdoctoral researchers to work on projects designed to understand the molecular mechanisms of chemotherapeutic action and resistance. Applicants should have a Ph.D. in microbiology or a related field. Applications should include a letter of interest, a curriculum vitae, and the names and addresses of three references. The application deadline is January 1, 1994. Please send applications to: Dr. Richard G. Summers, 707 University Research Building, Department of Microbiology, University of Wisconsin-Madison, Madison, WI 53706. FAX: 608-262-2824. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION in the Laboratory of Dr. J. Thomas. The laboratory is involved in the study of the molecular basis of drug resistance in cancer. Applicants should have a Ph.D. in biochemistry or a related field. They should have experience in molecular biology and in the analysis of DNA sequences. Applications should include a letter of interest, a curriculum vitae, and the names and addresses of three references. The application deadline is January 1, 1994. Please send applications to: Dr. J. Thomas, 707 University Research Building, Department of Microbiology, University of Wisconsin-Madison, Madison, WI 53706. FAX: 608-262-2824. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION in the Laboratory of Dr. John Krupecki. The laboratory is involved in the study of the molecular basis of drug resistance in cancer. Applicants should have a Ph.D. in biochemistry or a related field. They should have experience in molecular biology and in the analysis of DNA sequences. Applications should include a letter of interest, a curriculum vitae, and the names and addresses of three references. The application deadline is January 1, 1994. Please send applications to: Dr. John Krupecki, 707 University Research Building, Department of Microbiology, University of Wisconsin-Madison, Madison, WI 53706. FAX: 608-262-2824. Affirmative Action/Equal Opportunity Employer.

RESEARCH ASSOCIATE in Molecular Neurobiology/Mouse Genetics. A Ph.D. in molecular biology or a related field is required. Experience in molecular biology and in the analysis of DNA sequences is essential. Applications should include a letter of interest, a curriculum vitae, and the names and addresses of three references. The application deadline is January 1, 1994. Please send applications to: Dr. Joseph T. Takahashi, Department of Neurobiology & Physiology, Northwestern University, 2153 North Campus Drive, Evanston, IL 60208. Telephone: (708) 491-4598. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION in the Laboratory of Dr. J. Thomas. The laboratory is involved in the study of the molecular basis of drug resistance in cancer. Applicants should have a Ph.D. in biochemistry or a related field. They should have experience in molecular biology and in the analysis of DNA sequences. Applications should include a letter of interest, a curriculum vitae, and the names and addresses of three references. The application deadline is January 1, 1994. Please send applications to: Dr. J. Thomas, 707 University Research Building, Department of Microbiology, University of Wisconsin-Madison, Madison, WI 53706. FAX: 608-262-2824. Affirmative Action/Equal Opportunity Employer.

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Tampa Bay Research Institute Laboratory Director/Professor

Tampa Bay Research Institute of St. Petersburg, Florida, and Salem-Teikyo University of Salem, West Virginia, announce the development of a joint Graduate Program in Molecular Biology/Biotechnology. Currently, several senior positions as Laboratory Directors and at the Associate or Professor levels are considered. The focus of the research will be in the study of human virus latency with emphasis using molecular biology approach and antiviral therapy. The area of signal transduction and oncogenes will also be considered.

Salem-Teikyo University, already committed to strengthen its Undergraduate training in Molecular Biology/Biotechnology, is establishing a Graduate Program to be implemented in the Fall of 1993. Incumbent must have demonstrated communication skill and ability to teach at the graduate level.

Successful candidates will have their research programs located in Florida and will teach one course per year at STU. Joint appointments at the Tampa Bay Research Institute are expected for successful candidates.

Tampa Bay Research Institute is based in a modern facility with excellent individual laboratory and office space, and centralized facilities including a Biotechnology Service Laboratory, transgenic mice and in-house DNA sequence database. Investigators will enjoy complete freedom to pursue their research goals. While junior candidates will be considered, individuals with ongoing, active programs are encouraged to apply.

Applicants should have a Ph.D. or equivalent. Interested individuals should send curriculum vitae, list of publications, a short statement of research achievements, and names and addresses of three referees to the Chairman, Search Committee, Tampa Bay Research Institute, 10900 Roosevelt Boulevard, FL 33716.

FACULTY POSITIONS
HOPE COLLEGE
MOLECULAR BIOLOGIST AND FUNCTIONAL MORPHOLOGIST

Hope College has two tenure-track positions open in biology beginning in August, 1994. Appointment is expected to be at the ASSISTANT PROFESSOR level. Applicants must have a strong interest in undergraduate liberal arts education.

1. MOLECULAR BIOLOGY. The successful candidate will teach genetics and participate in the general introductory biology courses and appropriate upper level courses that include molecular perspectives.

2. FUNCTIONAL VERTEBRATE MORPHOLOGY. The successful candidate will teach human anatomy and participate in both introductory biology courses and an integrated vertebrate biology course.

In addition, both appointees will be expected to seek extramural funding to support an active research program which will involve undergraduates. Postdoctoral experience is preferred.

Hope College is a distinguished liberal arts college with an enrollment of approximately 2500 and a faculty of more than 140. The College is affiliated with the Reformed Church in America. Hope College maintains a strong tradition in "teaching through research" in the sciences.

Qualified applicants should arrange to have a curriculum vitae, transcripts, a statement of teaching competencies and philosophy, an outline of proposed research, and three letters of recommendation forwarded as soon as possible to:

Dr. Kathy Winnett-Murray (for functional morphology position)
Dr. David Netzly (for molecular biology position)
Department of Biology
Hope College
35 East 12th Street
Holland, MI 49423

Review of applications will begin November 15, 1993. Hope College complies with Federal and State requirements for non-discrimination in employment. Applications are strongly encouraged from persons belonging to groups under represented in science.

The George Washington University

The Department of Biological Sciences of the Columbian College and Graduate School of Arts and Sciences invites applications for the position of:

RONALD B. WEINTRAUB RESEARCH PROFESSOR OF BIOLOGICAL SCIENCES

This tenure-track position will be filled at the Assistant Professor level by a scientist using phylogenetic systematics and vertebrates to investigate questions in evolutionary biology.

Candidates with postdoctoral experience will be preferred and should be prepared to develop a funded research program involving graduate and undergraduate students. In addition to training students in research, the Ronald B. Weintraub Research Professor will offer one or two graduate courses per year. Substantial start-up funds are available. The starting date for the position will be July 1, 1994.

Please send a letter of application describing your research goals for the next five years as well as your teaching interests, a curriculum vitae and three letters of reference to:

Randall Packer, Chairman
Department of Biological Sciences
307 Lisner Hall
the George Washington University
Washington, DC 20052

In order to assure consideration for this position, applications should be received by November 12, 1993. The George Washington University is an Equal Opportunity, Affirmative Action Employer. Applications from women and minorities are strongly encouraged.

CELL BIOLOGIST

SmithKline Beecham Pharmaceuticals, a world leader in pharmaceutical research, has an exciting, new opportunity for a Molecular Biologist to join its expanding research team.

The selected individual will establish and conduct an independent research program in the molecular and cellular mechanisms of chronic renal disease. The successful candidate will have a Ph.D. in Cell Biology, Molecular Pharmacology, Biochemistry or related discipline with two to eight years of relevant postdoctoral and/or industrial experience. A strong record of scientific publications, superior oral/written communication skills, and a high level of motivation and organization skills are also required.

Our state-of-the-art research facility is located in suburban Philadelphia. We offer a competitive compensation/benefits/relocation package, as well as a stimulating and challenging work environment based on creativity, commitment and teamwork. For confidential consideration, please submit your C.V. and the names of three references to: SmithKline Beecham Pharmaceuticals, Employment Administrator, #L046, P.O. Box 1539, King of Prussia, PA 19406-0939. We are an Equal Opportunity Employer, M/F/D/V.
**LECTURER**  
**Physiology**  
**Department of Biology**  
**University of Michigan**

A non-tenure-track lecturer position in the Department of Biology at the University of Michigan is available. The initial term of appointment is for one semester. The department is seeking authorization to convert this to a 3-year lecturership which we anticipate will be on a 12-month basis and will be renewable, based upon satisfactory performance. The appointee will organize, coordinate and supervise a one-semester laboratory course in introductory animal physiology. To be considered, applicants must have a Ph.D. degree in biology, teaching experience in undergraduate biology, and research experience in animal physiology including publications. This position is available immediately, with instructional duties to begin January of 1994. The deadline for receipt of applications is November 1, 1993. Applicants should provide curriculum vitae and have three letters of recommendation sent to:

Chair, Temporary Physiology Lecturer Search Committee  
Department of Biology  
The University of Michigan  
Ann Arbor, MI 48109-1048

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

**GRADUATE PROGRAM**  
**CELL AND MOLECULAR BIOLOGY**  
**(INTER-DISCIPLINARY)**

- **GENE EXPRESSION AND REGULATION**  
- **THE HUMAN GENOME AND GENE THERAPY**  
- **DEVELOPMENTAL BIOLOGY AND GENETICS**  
- **CELL CYCLE, GROWTH CONTROL AND CANCER BIOLOGY**  
- **MOLECULAR VIROLOGY, IMMUNOLOGY AND AIDS**  
- **STRUCTURAL AND COMPUTATIONAL BIOLOGY**  
- **SIGNAL TRANSDUCTION AND MEMBRANE BIOLOGY**  
- **LIPID METABOLISM AND CARDIOVASCULAR BIOLOGY**

The Graduate School at BAYLOR COLLEGE OF MEDICINE has created a graduate program in CELL AND MOLECULAR BIOLOGY stressing basic research in the above areas. Students accepted for studies leading to the Ph.D. will receive financial support. For further information please contact Dr. Savio L. C. Woo, Director at the following address:

Graduate Program in Cell and Molecular Biology  
Baylor College of Medicine  
The Graduate School  
One Baylor Plaza Room S-101  
Houston, Texas 77080

Phone: (713) 798-6557

MINORITY APPLICANTS ARE ENCOURAGED

**DIRECTOR**  
**Boston Biomedical Research Institute**

Boston Biomedical Research Institute invites applications and nominations for the position of Institute Director. Applicants should have a distinguished scientific research record, demonstrated administrative leadership, and should be willing to participate in the fund-raising and developmental programs of the Institute.

Located in the heart of historical Boston the Institute is a 25-year old internationally known, independent, non-profit, basic biomedical research organization. With a research faculty of 24 principal investigators, its major research interests include muscle biology, cell motility, control of cell growth and gene expression, and membrane structure and function.

In addition to the overall responsibility as Director of the Institute, the successful candidate will conduct a vigorous research program that builds on or complements ongoing research at the Institute. Interested individuals should send a letter and curriculum vitae to:

Mr. Edgar G. Davis  
Chairman of the Search Committee  
Boston Biomedical Research Institute  
20 Staniford Street  
Boston, MA 02114

Boston Biomedical Research Institute, an Equal Opportunity Employer, is dedicated to basic biomedical research, with a view to promoting the understanding, treatment and prevention of human diseases.

**FACULTY POSITION: CANCER RESEARCH - TRANSGENIC MICE**

The Department of Molecular Genetics at the Ohio State University, in collaboration with the OSU Comprehensive Cancer Center, is searching for a tenure-track faculty member at the Assistant, Associate or Full Professor level. We are interested in highly qualified applicants who are conducting basic investigations in the general field of cancer research and who use transgenic mice as the experimental system. The faculty member will be housed in a spacious, newly renovated laboratory in the Biological Sciences Building and will have excellent access to the recently completed transgenic mouse facility located at the OSU Biotechnology Center. The transgenic facility includes state-of-the-art equipment as well as technical support.

A generous recruiting package is available, including a highly competitive, hard money salary, as well as substantial funds for equipment purchase and initial operating expenses. The Ohio State University is in the process of a major expansion in Molecular Biology and Biotechnology, and a substantial number of additional positions are anticipated in the future. Research with transgenic mice is one of the areas targeted for expansion.

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

Applications should include a detailed curriculum vitae, a description of research experience, a statement of the nature of the planned independent research program, and the name, address and telephone number of each of four scientists who have agreed to serve as references. Applications will be accepted until suitable candidates are hired, but recruiting is scheduled to begin in earnest by January 1994. Information about our Department can be obtained by calling our office at 614-292-8084.

Applications should be sent to: Dr. Lee Johnson, Molecular Genetics Search, Department of Molecular Genetics, The Ohio State University, 484 W. 12th Avenue, Columbus, OH 43210.

The Ohio State University is an Equal Opportunity/Affirmative Action Employer. Qualified women, minorities, Vietnam-era Veterans, disabled veterans and the disabled are encouraged to apply.
THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY
Department of Biochemistry

FACULTY POSITIONS

The Hong Kong University of Science and Technology, established in April 1988, is a publicly-funded research university with a mandate to teach, to do research, to nurture talents and to facilitate technological development in Hong Kong. The medium of instruction is English. The Department of Biochemistry invites applications for Lecturer positions in all areas of biochemistry, protein-NMR, as well as the allied areas of microbiology, cell biology and pharmacology. Applicants should have a Ph.D. in Biochemistry or related discipline with at least one year of postdoctoral experience. Generous fringe benefits include medical and dental benefits, annual leave, and children's education allowances. Air passages and housing are also provided where applicable. Salary will be in the range of US$48,400 to US$80,800 (exchange rate: US$1 = HK$7.8) per annum depending on qualification. Initial appointments will normally be on a three-year contract which is renewable subject to mutual agreement. A gratuity of an amount equal to 25% of the total basic salary drawn will be payable upon successful completion of contract. Approved sabbatical leave will be at full salary. Applications/nominations should be sent with a C.V., together with the names and addresses of three referees, to Professor J. Tze-Fai Wong, Head of Department of Biochemistry, HKUST, Clear Water Bay, Kowloon, Hong Kong (Fax: 852 2583978) by 31 December 1993, but the search will continue until suitable appointments have been made.

Innovation & Efficiency

Using innovation to improve the efficiency of molecular biology research products has been the cornerstone of Stratagene's development since our founding in 1984. With more than 200 employees and 500 products, Stratagene is now seeking qualified and experienced technical sales professionals to join our team.

TECHNICAL SALES REPRESENTATIVES

These positions represent a unique opportunity for qualified individuals to participate in a growing technical sales organization. Positions are available immediately in the South Central territory with the base location in the Houston area; New York/New Jersey positions are also available with the base location in the New York area.

Candidates should have strong practical experience in molecular biology or a related field. Sales experience is beneficial. Sales Representatives will attend an extensive training program at our beautiful coastal location in La Jolla, California.

We offer an excellent company benefits package, including a 401(K) Plan, and a competitive salary and incentive program. All qualified candidates forward resume of qualifications to: Stratagene, Attn: Professional Staffing, 11099 N. Torrey Pines Rd., La Jolla, CA 92037. AA/EOE.

Our entrepreneurial environment naturally evolves as a function of our mission: the development of recombinant DNA-based human therapeutics, utilizing the principles of molecular and cellular biology...through rapid product development and innovative commercialization strategies. We currently have an opportunity for the following professional:

Research Associate

Candidates must have a BS/BA degree in Chemistry or Biochemistry, preferably a Master's degree in protein or analytical chemistry, or 1-3 years industrial experience in protein formulation and/or protein stability analysis. Experience in one or more of the following techniques is required: electrophoresis (SDS-PAGE, IEF), Western blotting, HPLC (reverse phase, ion-exchange and size-exclusion chromatography), radiolabelling and UV-Vis. CD, DSC and fluorescence experience is desired.

At Amgen, our staff plays an integral role in maintaining the highest of standards and product excellence. We offer a highly competitive compensation and benefits package. If you're interested in this position, please FAX your resume to: FAX: (805) 447-1985, Amgen Inc., Staffing, Job Code OA-SC-SS-003, Amgen Center, Thousand Oaks, CA 91320-1789.
POSTDOCTORAL RESEARCH POSITION immediately available to participate in the cloning and characterization of Arabidopsis thaliana. Candidates should have a strong background in genetics and molecular biology. Interested individuals should send curriculum vitae and 3 letters of recommendation to: Keith R. Davis, Biotechnology Center, 1060 Carmack Road, Columbus, OH 43210–1002. Equal Opportunity Employer.

The Human Gene Therapy Research Institute (HGTRI) at Iowa Methodist Medical Center is actively recruiting M.D. and Ph.D. SCIENTISTS of various experience levels with expertise in hematopoietic/oncology infectious diseases, genetics, molecular biology, surgical oncology and neurosurgery to participate in the development and initiation of human gene therapy clinical trials. The HGTRI was established in 1993 under the direction of Dr. Kenneth W. Culver and contains more than 12,400 square feet of laboratories and clinical facilities. Iowa Methodist Medical Center is a 710-bed non-profit tertiary care hospital located in Des Moines, Iowa. Academic affiliates with Iowa State University and the University of Iowa provide an ideal environment for the efficient development of gene therapy as a new treatment modality and clinical discipline. Please forward a copy of your curriculum vitae to: Dr. Kenneth W. Culver, Human Gene Therapy Research Institute, Iowa Methodist Medical Center, 1415 Woodland Avenue, Des Moines, IA 50309.

California Department of Health Services, Genetic Disease Branch, announces an examination to fill a position for BIOSTATISTICIAN IV. This position is responsible for designing and evaluating statistical assessment of risks for hereditary disorders. The interrelation of physiological variables with biochemical analyses will be used to develop algorithms for data analysis and screening efficiency. A doctoral degree in biostatistics or a closely related field and eighteen months of teaching/research experience in Biostatistics (postdoctoral) is required. Salary is $3837 to $4618 monthly. The position will be located in Berkeley, California. Obtain an application form and announcement for a Civil Service Examination by contacting: Maxie Spears at (510) 540-3117 or (TDD) (916) 657-5842. Applications for this examination must be postmarked no later than December 1, 1993. California State Government is an Equal Employment Opportunity/Affirmative Action Employer.

CINVESTAV–IPN
MEXICO
RESEARCH SCIENTISTS
IN MOLECULAR BIOLOGY AND GENETICS
(Viruses, Parasites, Yeast and Mammalian Cells)
Positions will be available in the Department of Genetics and Molecular Biology by January and September 1994. A Ph.D. degree or foreign equivalent is required. Applications from interested persons must include personal curriculum vitae, a brief statement of research interests and experience, names, addresses and telephone numbers of three references. Direct application material to: Dr. Maria de Lourdes Muñoz, Head of Genetics and Molecular Biology, Av. IPN No. 2508, C.P. 07360, Mexico, D. F. Telephone: 754-02-00 Extension 5346 FAX: 752-63-30.
Simultaneous CD4, CD8 measurements using CD3 cells as the gate criteria. Whole blood was labeled with CD3-PE, CD4-Quantum Red and CD8-FITC in a single tube.

Quantum Red™ tandem dye provides three color capabilities for virtually all flow cytometers. Simultaneous analysis of multiple cell populations or fluorescence gating is now possible.

Quantum Red Offers:
- Lower emissions in PE channel compared to other tandem dyes
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Sigma Immuno Chemicals
New Products For Cell Adhesion and Tumor Biology Research

Two New Elisa Kits

sELAM-1 ELISA Kit*
Uses: Monitoring of sELAM-1 (soluble Endothelial Leukocyte Adhesion Molecule-1) levels in normal as well as number of pathological conditions such as cancer, rheumatology, infectious diseases, allergies, transplant rejection and inflammatory diseases appears to have significant research interest.
Range: 1.5–50ng/ml Sensitivity: < 1.6ng/ml.
Rapid: Total incubation only 2 hours, 15 minutes

sLECAM-1 ELISA Kit*
Uses: Altered levels of sLECAM-1 (soluble Leukocyte Endothelial Cell Adhesion Molecule-1) have been found in disease states including sepsis, HIV-infection, neoplastic diseases, neonatal infection, transplantation and insulin dependent mellitus.
Range: 0.3–25ng/ml Sensitivity: 0.3ng/ml.
Rapid: Total incubation only 2 hours, 15 minutes

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- CD11b
- CD11c
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- CD44v exon v3-v4
- CD44v exon v5
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- CD44v exon v8
- CD44v exon v9-v10
- ICAM-1
- ICAM-2
- ICAM-3
- HER-2 (c-erbB-2)*

Other ELISA Kits available from BioSource:
- hIL-1α†
- hIL-2
- hIL-2 Receptor
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- hIL-10
- h & m SAA
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- sCAM-1*
- hSCF/C-kit Ligand†
- FN/α

If you don't see the kit you're interested in, call us — it's probably under development.
Please contact BioSource International for your free copy of our 1993/94 Research Catalog containing over 600 reagents and assays for studies in cell biology and immunology.
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