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Now a cost effective way to buy peptides:
• Quality peptides custom made to your sequence
• HPLC trace provided
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• Low price from $150 (see below)
• Delivery within four weeks
• Confidentiality guaranteed
• Longer peptides, higher purities available

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<tr>
<th>Length</th>
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<tr>
<td>Purity</td>
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<td>Amount</td>
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<tr>
<td>Price per Peptide</td>
<td>US$150</td>
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For further information about our peptides, conjugated peptides and anti-peptide sera, please contact:

CHIRON MIMOTOPES
11 Duerdin St., Clayton, Victoria 3168, Australia
Tel: International +61 3 565 1111
Fax: International +61 3 565 1199

Circle No. 18 on Readers' Service Card
HUMAN BEHAVIORAL PHARMACOLOGIST

Applications are invited for a tenure-track position in the Department of Psychiatry and Human Behavior at the University of Mississippi Medical Center. The position will be at the ASSISTANT or ASSOCIATE PROFESSOR level, depending upon qualifications. Candidates should have a Ph.D. in Psychology, Pharmacology or Neuroscience and/or M.D. with expertise in behavioral pharmacology using human subjects. The successful candidate will be expected to develop and direct extramurally funded research in human behavioral pharmacology and to establish collaborative relationships with other scientists within and applied Science. Salary will be commensurate with rank and start-up funds and space are available. Applicants should send curriculum vitae, a statement of current and future research goals and names of three references to: Dr. Joel L. Woolverton, Ph.D., Chair of Search Committee, Department of Psychiatry and Human Behavior, the University of Mississippi Medical Center, 2500 North State Street, Jackson, MS 39216. Applications will be accepted until August 31, 1993. Equal Opportunity Employer, M/F/D/V.

ECOLOGY: York University, Toronto, Canada. Faculty of Pure and Applied Science. Department of Biology. Applications are invited for a position at the ASSISTANT PROFESSOR level, commencing July 1, 1994. The successful candidate is expected to establish an independent research program and contribute to undergraduate and graduate teaching in ecology. The area of expertise in ecology is open but the candidate will complement present faculty in ecology and population biology. York University is located in Metropolitan Toronto, a active center for scientific and scholarly research. Deadline for applications is August 1, 1993. Applications, including curriculum vitae, a description of research, selected reprints, and three letters of reference which will remain confidential, should be sent to: Dr. Joel Shore, Ecology Search Committee, Department of Biology, York University, 4700 Keele Street, North York, Ontario, Canada M3J 1P3. York University is implementing a policy of Employment Equity, including Affirmative Action for women faculty. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada.

ASSISTANT PROFESSORS TENURE-TRACK
MASSACHUSETTS INSTITUTE OF TECHNOLOGY DEPARTMENT OF CHEMISTRY

The Department of Chemistry invites applications for two tenure-track positions, one in Biological Chemistry and the other in Physical Chemistry. While the preferred level of appointment is at the rank of Assistant Professor, applications for appointments at the Associate Professor level are also welcome. Outstanding individuals with a strong commitment to research and teaching are encouraged to apply by arranging to have curriculum vitae, a brief description of research plans, and three letters of recommendation sent to: Professor Robert J. Silbey, Department of Chemistry, 18-399, Massachusetts Institute of Technology, Cambridge, MA 02139-4307. Deadline for Assistant Professor, Physical Chemistry: August 31, 1993.

MIT is an Equal Opportunity, Affirmative Action Employer and encourages applications from minorities and women.

MOLECULAR NEUROBIOLOGIST—The Department of Psychiatry of Indiana University School of Medicine has a faculty position open in molecular neurobiology at the Institute of Psychiatric Research, The Institute has a special interest in the molecular genetics of animal behavior. The successful candidate would be eligible for a tenure-track appointment as an ASSISTANT/ASSOCIATE PROFESSOR who is capable of initiating an independent research program and a possible joint appointment in an appropriate basic science department. Send curriculum vitae to: John L. Nurnberger, M.D., Ph.D., Director, Center for Behavior and Medical Neurobiology, Director, Institute of Psychiatric Research, 791 Union Drive, Indianapolis, IN 46202-4887; Telephone: (317) 274-8382. Indiana University is an Equal Employment Opportunity/Affirmative Action Employer, M/F.

Science • Vol. 260 • 14 May 1993
**POSITIONS OPEN**

**ASSISTANT DIRECTOR STABLE ISOTOPE LABORATORY**
**ASSOCIATE PROFESSOR/INSTRUCTOR.** The Pennsylvania Bioresearch Center (PBRC) seeks to employ an Assistant Director for the Stable Isotope Laboratory to oversee daily operations and serve as a scientist conducting human nutrition basic and clinical research using stable isotopes. Participate in and complement the existing funded programs and develop independent projects. More programs are emerging in obesity and cardiovascular disease. Research areas include obesity and energy expenditure, apolipoprotein, fatty acid, protein, and carbohydrate metabolism. Research facilities, scientific environment, and funding are excellent (two isotope-ratio MS with automated peripherals including GC-combustion, a third IRMS on order; a GC/LC/Quadrupole-MS). Submit curriculum vitae, letter of interest, three letters of recommendation to: Evelyn P. Bennett, Assistant Director, HRM, Ref: Stable Isotope Pennington Biomedical Research Center 6400 Perkins Road Baton Rouge, LA 70808 Louisiana State University/PBRC is an Equal Opportunity/Affirmative Action Employer.

**MOLECULAR IMMUNOLOGIST**
At the University of Arizona Health Sciences Center. The position is tenure-track at the level of ASSISTANT PROFESSOR or ASSOCIATE PROFESSOR with an appointment in the Division of Microbiology and Immunology and in the Arizona Cancer Center. Applicants should have a Ph.D. or M.D. and have demonstrated excellence in research. The successful candidate will be expected to develop an independent, competitive research program in cancer-related immunology and have an interest in the application of state-of-the-art immunological techniques to clinical problems. Women and minorities are encouraged to apply. Submit curriculum vitae and 3 letters of recommendation to: Dr. John J. Marchalona, Professor and Chair, Microbiology and Immunology, Arizona Health Sciences Center, Tucson, AZ 85724. Applications will begin to be considered July 1, 1993, until the position is filled. The University of Arizona is an Equal Opportunity/Affirmative Action Employer.

**MICROBIOLOGY/IMMUNOLOGY**
The School of Podiatric Medicine at Barry University seeks applicants for ASSISTANT or ASSOCIATE PROFESSOR of Microbiology. Requirements: Ph.D. with preparation in microbiology, infectious disease, immunology, with experience teaching podiatric medical students; preferred minimum of 5 years of full-time teaching/research experience. Responsibilities include lecture, laboratory and student advising. Send resume, transcripts and three letters of reference to: Chet Evans, D.P.M., P.A.C.C.F.A.S., Dean, Barry University School of Podiatric Medicine, 11300 N.E. 2nd Avenue, Miami Shores, FL 33161.

**POSITIONS OPEN**

**CELL AND MOLECULAR BIOLOGISTS**
The Department of Cell and Molecular Biology at Lawrence Berkeley Laboratory seeks to fill two positions, one at the STAFF SCIENTIST level (rank equivalent to ASSOCIATE PROFESSOR) and one at the SENIOR SCIENTIST level (rank equivalent to ASSOCIATE PROFESSOR). Investigators in any area of cell and molecular biology with a vigorous research program and extramural support are encouraged to apply, but special consideration will be given to those taking molecular approaches to understanding the mechanisms of carcinogenesis. The successful candidate will be able to generate a competitive startup package. The successful applicant will be expected to develop an independent research program. Submit curriculum vitae, letter of inquiry, and three letters of recommendation to: Dr. Judith Campisi, c/o Lawrence Berkeley Laboratory, Staffing Office, One Cyclotron Road, Building 90/1042, Berkeley, CA 94720. An Equal Opportunity/Affirmative Action Employer.

**NEUROSCIENTIST**
The Department of Anatomy and Neurobiology at the Medical College of Pennsylvania seeks a Neuroscientist for a tenure-track position at the level of ASSOCIATE or FULL PROFESSOR. Applicants are expected to have successful research programs that include cellular and/or molecular approaches and complement existing programs in the Department. The Department faculty are an interactive group with strengths in cellular development and regeneration and synaptic physiology and plasticity. Truly outstanding candidates more suited to an appointment at the Professor level will also be considered. Applicants should send curriculum vitae, a statement of research interests, and three letters of reference to: Donald S. Faber, Ph.D., Professor and Chair, Department of Anatomy & Neurobiology, The Medical College of Pennsylvania, 3200 Henry Avenue, Philadelphia, PA 19129. Deadline for applications is July 1, 1993. The Medical College of Pennsylvania is an Affirmative Action/Equal Opportunity Employer and welcomes applications from qualified women and minorities.

**RESEARCH ASSISTANT/ASSOCIATE PROFESSOR**
A position is available at the rank of Assistant Professor (Research) or Associate Professor (Research) in the Division of Otolaryngology/Head and Neck Surgery for a Ph.D. director of the head and neck cancer biology laboratory to direct and conduct independent research in a new research laboratory in some aspect of head and neck cancer biology. The individual will also work with other investigators at Stanford University Medical Center in collaborative interdepartmental studies. The candidate should have completed a postdoctoral fellowship in either molecular biology, genetics, tumor immunology, or cancer biology. The candidate should have demonstrated experience in research with publications in peer-reviewed journals, have at least two years of postdoctoral experience and demonstrate capability in achieving independent funding. Stanford University is committed to increasing representation of women and members of minority groups on its faculty and particularly encourages applications from such candidates. Letters of inquiry with curriculum vitae and the names and addresses of four references should be sent to: Willard E. Fee, Jr., M.D. Division of Otolaryngology/Head and Neck Surgery R-135 Edwards Building Stanford, CA 94305-3528 Telephone: 415/725-4290 FAX: 415/725-8502

**COLUMBIA UNIVERSITY**
**ASSOCIATE DIRECTOR STABLE ISOTOPE TECHNOLOGY DEVELOPMENT**
Columbia University seeks an Associate Director in its Office of Science and Technology Development. This office is responsible for the technology transfer between the University and industry. Working closely with the faculty, the incumbent obtains invention disclosures, evaluates inventions for technical and commercial value, contacts companies, market inventions and develop research collaborations, and negotiates license and research agreements. Ph.D. in science (prefer Health Science) is required. 3-5 years with 3 years of experience in health or biotechnology industries required. Knowledge of Health Sciences, business practices and intellectual property law necessary. Send résumé and salary history to: Employment Office, Box ST, 209 Dodge Hall, Columbia University, New York, NY 10027. We take Affirmative Action toward Equal Opportunity.

**Current Protocols in Immunology**
**SERIES EDITOR**
Current Protocols, a publisher of looseleaf, updated methods manuals, is seeking an immunologist, preferably in the Washington, D.C. or New York area, to serve as series editor of Current Protocols in Immunology. Considerable analytical and communication skills are required for this full-time position that can be set up in your home office. Responsibilities will include attending meetings with editorial board members at the National Institutes of Health, eliciting authors, ensuring timely manuscript delivery, reviewing manuscripts, corresponding with subscribers, and writing quarterly newsletter. Minimum requirements: Master's in immunology (Ph.D. preferred), lab experience, and tremendous writing skills. For full position description, contact: E-mail: nitwit@nih.gov, Telephone: (202) 401-6000 Extension 444. Fax: (202) 401-6000 Extension 324. Columbia University is an Affirmative Action/Equally Opportunity Employer. Series Editor.

**BASIC SCIENCE PROGRAM DIRECTOR**
The Division of Critical Care in the Department of Pediatrics at Cooper Hospital/University Medical Center is seeking a Director of a newly formed basic science research program. This program will involve both teaching and supervising basic science research of critical care/ Neonatal attendings, fellows, and residents. Experience in cardio-pulmonary and/or respiratory physiology is most desirable. The position will have an appointment in the Department of Pediatrics at Robert Wood Johnson Medical School. An affiliation with the Coriell Institute for Medical Research, located on the clinical campus, is possible. We offer laboratory space, support staff, and a very competitive salary for the Northeast region. Our location is 5 minutes from Philadelphia.

For further information, please contact: Frank A. Briglia, M.D., M.P.H. Chief, Department of Pediatrics Cooper Hospital/University Medical Center 3 Cooper Plaza, Suite 520 Camden, NJ 08103 Telephone: (609) 324-2546 FAX: (609) 963-2514

**CONGLERATED BUILDING LARGE TEAM**
Seeking scientists in neuroscience, biochemistry, bioengineering, pharmacology, molecular biology, genetics, endocrinology, psychiatry and nutrition for R&D in neurological and psychiatric disorders and mental illness. Full-time and consulting available. Excellent remuneration and equity. Box 32, Science Classified Advertising, 1533 H Street, N.W., Washington, DC 20005.
CHALLENGING BIOMEDICAL EMPLOYMENT OPPORTUNITIES

DHHS/PHS/FOOD AND DRUG ADMINISTRATION CENTER FOR BIOLOGICS EVALUATION AND RESEARCH CENTER FOR DRUG EVALUATION AND RESEARCH

The Centers for Biologics and Drug Evaluation and Research are searching for outstanding Physicians and Scientists interested in a challenge by participating in the development and approval process for new biological and drug products. Physicians and scientists serve on multidisciplinary scientific teams of highly skilled professionals. Duties may include reviewing and evaluating Investigational New Drug applications and biological product license or new drug applications; reviewing proposed labeling; evaluating adequacy of the methods, facilities and controls used for manufacture of biologics and/or drugs, and summarizing findings and making recommendations for approval or non-approval of applications. Some positions offer the unique opportunity to conduct biomedical research in combination with review responsibilities. These positions have a high degree of independence and involve complex medical, scientific, and regulatory issues. Opportunities for professional development may include further training, attendance at scientific meetings and conferences, and clinical activities.

Qualifications: Physicians must have completed all requirements for a Doctor of Medicine or Osteopathy Degree from an accredited institution. Graduates of foreign medical schools must submit a copy of their permanent Educational Commission for Foreign Medical Graduates (ECFMG) certification. Physicians should be board eligible or certified in a primary specialty or have completed at least four years residency training or possess equivalent experience. A background combining research experience with clinical medicine is preferred along with specialty training and expertise in one or more of the following areas: oncology, infectious diseases, hematology, rheumatology, epidemiology, pediatrics, pulmonary diseases, allergy, immunology, parasitic diseases, pathology, pediatric pulmonology, gastroenterology, or related disciplines. For scientists, doctoral level degrees in biological or physical sciences, pharmacology, toxicology, or related disciplines, along with advanced training and/or experience in the development, manufacturer or testing of biologics, drugs and/or antibiotics is desirable.

For all candidates, experience in the pharmaceutical industry along with computer applications would be desirable. In addition, candidates should have highly developed analytical, written and oral skills, as well as the ability to research problems and issues and to use mature judgment in problem solving.

Candidates for Civil Service or Commissioned Corps appointments must be U.S. citizens. Candidates for Fellowships may be either U.S. citizens or resident aliens eligible for citizenship within four years.

Location: Offices and laboratories are strategically located on the campus of the National Institutes of Health in Bethesda, Maryland, or in several locations throughout the Rockville, Maryland, area.

Salary: For physicians. Civil Service salary range for GS-13 through GS-15 is $59,099 to $91,029. In addition, some positions may include a Physicians' Comparability Allowance. For scientists other than M.D., Civil Service salary range for GS-11 through GS-15 is $33,623 to $86,589. Salary, benefits, research support, and level of responsibility are commensurate with education and experience. Also, positions may be filled by appointment in the U.S. Public Health Service, Commissioned Corps, or in the Fellowship Program, with commensurate salary and benefits.

How To Apply: Interested candidates should send an Application for Federal Employment (SF-171) and/or current detailed Curriculum Vitae along with bibliography, statement of regulatory/research interest, transcripts, and names of three references to:

FDA/Center for Biologics Evaluation & Research  
Attention: Ms. Blumenthal (71)  
Suite 200N - HFM-125  
1401 Rockville Pike  
Rockville, Maryland 20852-1448

FDA/Center for Drug Evaluation and Research  
Attention: Ms. Alderman  
Rm. 6B-05 - HFD-20  
5600 Fishers Lane  
Rockville, Maryland 20857

FDA IS AN EQUAL OPPORTUNITY EMPLOYER AND HAS A SMOKE FREE ENVIRONMENT
LEADERSHIP POSITIONS IN PHARMACEUTICAL RESEARCH

Plant Pharmaceuticals, Inc., is an exciting, venture-backed start-up company based in Worcester, MA. We are applying novel, world-class capabilities in plant tissue culture to the discovery and development of plant-derived compounds to treat major human illnesses. A U.S. company, we have recently acquired a U.K. organization with strong credentials in plant cell biotechnology.

We currently need to fill three important technical leadership positions. These management-level opportunities require seasoned research professionals capable of leading, motivating and managing a team of accomplished scientists and technologists. The people we hire will be flexible, creative, hard-driving managers who can make significant contributions to our fast-paced, entrepreneurial environment.

NATURAL PRODUCT CHEMISTRY

The core technologies of this group are to isolate and identify active chemical entities from plant cell culture extracts. Medicinal synthesis of the simpler candidates will ultimately be involved. To lead this group you must have strong experience in natural product chemistry, encompassing a broad array of separative, analytical, identification and synthesis methodologies.

ANTI-INFECTIVE RESEARCH

The focus of this group will be to identify several targets for important new infectious disease therapies and establish the biological screening systems to discover and develop products into clinical study. Emphasis will be placed on anti-fungal and antiviral targets which can be approached through novel mechanisms of action.

BIOLOGICAL RESEARCH

This group will establish biological screening systems in a number of therapeutic areas to identify active new chemical entities from an extensive library of plant cell culture extracts. Familiarity with screening paradigms used in pharmaceuticals/biotechnology is critical. Responsibilities will encompass the selection of high-throughput systems for initial screening as well as a range of secondary evaluation systems required to advance defined candidates to clinical study.

All three positions require a Ph.D. in a related science, a strong post-doctoral research record, and at least 5 years of outstanding experience in a major pharmaceutical or biotechnology company. We are located in a mid-sized Central Massachusetts city with access to major medical and university institutions in the Boston area. Please forward your curriculum vitae to Ms. Hillary Clayton, Human Resources, Dept. SC, Plant Pharmaceuticals, Inc., One Innovation Drive, Worcester, MA 01605. An equal opportunity employer.

CHAIR, DEPARTMENT OF HEALTH POLICY AND MANAGEMENT
THE JOHNS HOPKINS UNIVERSITY SCHOOL OF HYGIENE AND PUBLIC HEALTH

Nominations and applications are invited for the position of Chair, Department of Health Policy and Management. This prestigious department of more than 60 full-time faculty and 150 graduate students has an extensive and varied research agenda.

Programs of graduate and professional education are offered in health policy, economics, finance, organization and management, and health services research.

The research program focuses in the areas of: health care finance and technology; health-related behavior; health and social policy; innovative health care systems; prevention of disease and injury; quality of care and health outcomes; and serving vulnerable populations.

The Department is also active in professional practice through the Health Program Alliance that provides technical assistance and continuing education to participating federal, state and local health agencies.

Candidates for this position should have an outstanding record of academic and research accomplishment, experience in health policy and practice, proven administrative abilities, and an interest in working collaboratively with colleagues in a school of public health with over 350 full-time faculty, as well as with those in the School of Medicine and School of Arts and Sciences. Imaginative leadership during this period of dynamic health system change is required.

Applications should be received by June 30, 1993 at the address below:

Dr. William A. Reinke
Chair, Health Policy and Management Search Committee
The Johns Hopkins School of Hygiene and Public Health
615 N. Wolfe Street, Baltimore, MD 21205-2179

AA/EOE

DIRECTOR OF LIBRARIES
Mayo Foundation

Mayo Foundation is seeking a knowledgeable, innovative, dynamic individual to lead its library system. The director is responsible for the financial, technical and human resources of all Mayo libraries and reports directly to the Foundation's Director for Education. This person must integrate and oversee information systems that serve physicians, nurses, allied healthcare professionals, biomedical scientists and students in a wide variety of health-related programs, as well as supporting the information needs of Mayo's patients, hospitals and clinics.

The Director must articulate a persuasive, achievable vision for the Mayo libraries and will implement an electronic biomedical information retrieval and management system.

Mayo has campuses in Rochester, Minn., Scottsdale, Ariz., Jacksonville, Fla., and other regional medical facilities. The libraries have a staff of 50, an annual budget of 4.3 million dollars, a collection of 337,000 volumes, and more than 4,250 medical and scientific journal subscriptions.

This position requires a distinguished career with a record of leadership and demonstrated expertise in library information systems. A graduate degree in library science, medical informatics or a related field is important.

SUBMIT A LETTER OF APPLICATION, CURRICULUM VITAE AND THREE REFERENCES BY JUNE 1, 1993, TO:

Alan D. Sessler, M.D.
Division of Education/Mayo Foundation
Rochester, MN 55905

Mayo Foundation is an affirmative action and equal opportunity educator and employer.
At ImmuLogic, an expanding biopharmaceutical company, we’re developing products to treat allergies and autoimmune diseases. Our approach, based on proprietary discoveries and an advanced molecular understanding, is designed to control, rather than mediate the specific initiating events in the immune system known as the Recognition Triad. Our ALLERVAX® products will cause T cells to become non-responsive, and convert an allergic or disease reaction to a normal one. CATVAX, for allergy to cats, and our first therapeutic to begin Phase II Clinical Trials, has the potential to establish a new paradigm for treating immune disorders.

Along with key industry partnerships, we’ve assembled a first-rate team of scientific professionals with a broad range of expertise. We’re in a position to offer you exceptional opportunities and support for your professional stature. We reward your contribution with a competitive compensation and benefits package. Please send your C.V., referencing the department, to: Human Resources Department, ImmuLogic Pharmaceutical Corporation, 610 Lincoln Street, Waltham, MA 02154. An equal opportunity employer.

Aggressively translating our science into therapeutic products.

RESEARCH

Director - Immunology
In this key position, you will manage and organize our immunology group directing a T cell epitope approach to the control of allergic diseases. Specifically, you will lead a research group to elucidate the mechanism of tolerance induction and the regulation of cytokine synthesis. You will perform administrative and research responsibilities and supervise a minimum of 7 to 10 researchers. Requires a Ph.D. in Immunology or a related field and a minimum of 12 to 15 years' experience directing at least 10 researchers. Demonstrated excellence in scientific research in immunology is required. Dept. IMD.

Scientists
As a member of a team of scientists interested in the control of the allergic response, we seek two qualified candidates to work in our immunology research group. In the first position, you'll perform T cell analysis and act as a project leader in our human immunology group. Requires a Ph.D. in Immunology or a related field and a minimum of 5 to 7 years' postdoctoral experience. Human T cell culture experience or allergy research in a related area preferred. Dept. IM1.

In the second position, you will participate in research using the murine immune response as a model. Responsibilities include supervising assistants and direct experimental involvement. Requires a Ph.D. in Immunology or a related field and a minimum of 2-4 years' postdoctoral experience. Some molecular biology experience is a plus. Dept. IM2.

DISCOVERY RESEARCH

Senior Scientist
We are currently seeking a senior member of this newly formed group. You'll participate in the development, evaluation and performance of new research programs aimed at modulating the immune response. To qualify, you should have a strong scientific background in immunology, with experience in molecular and biochemical technologies, and an excellent research record and experience supervising Ph.D. and technical staff. Requires a Ph.D. in Immunology/Microbiology/Biochemistry and a minimum of 12 years' experience. You should be familiar with current vaccine technologies, T cell regulation and activation and isotype regulation. Experience with mucosal epithelial immunity is preferred. Dept. DR5.

PROCESS DEVELOPMENT

Scientist - Bioassay
You will develop and execute immunological assays required to support the preclinical and clinical analysis of our products. Responsibilities include assay development (ELISA, RIA and T cell functional), involvement in the generation of T and B cell hybridomas and participation in planning research efforts. Requires a Ph.D. in Biochemistry or a related field and a minimum of 2 years' experience in a research environment. Dept. PDS.

ImmuLogic Pharmaceutical Corporation

The clear relationship between business and science.
MOLLEcular viRIOloGISTS/OnCoLoGISTS
tEnURe-track FaculTy poSITIoNS
The Department of Microbiology and Immunology, Louisiana State University Medical Center (LSUMC), invites applications and nominations for tenure-track faculty positions at the levels of PROFESSOR, ASSOCIATE PROFESSOR, and ASSISTANT PROFESSOR. We seek candidates who are committed to diversity and demonstrated ability to direct an independent research program in the areas of molecular virology, viral genetics, and/or molecular investigations of HIV, oncological tumor suppressor genes, or cancer. Candidates for senior positions must have a record of distinction in published research and in obtaining grants. Responsibilities include training graduate students, developing and implementing a vigorous independent research program and participate in the medical and graduate student teaching programs of the Department of Microbiology and Immunology. Affirmative Action/Equal opportunity Employer.

AFFIRMATIVE ACTION/Equal OPPORTUNITY EMPLOYER

ROBERT UNIVERSITY SCHOOL OF MEDICINE ACADEMIC POSTS
Invites nominations for Junior- and Senior-level FACULTY APPOINTMENT POSITIONS for the following Basic Science departments:

- MICROBIOLOGY
- PHYSIOLOGY/PHARMACOLOGY
- ANATOMY/NEUROSCIENCE
- BEHAVIOR

Applicants must have a Ph.D. and/or M.D. with prior teaching experience. Salary is negotiable. (Excellent tax benefits.)

Campus Located on the Caribbean Island of Dominica, West Indies.

Qualified applicants please send curriculum vitae to:

Robert University School of Medicine
660 West 34th Street, 12th floor
New York, NY 10001

The Department of Veterinary Anatomy and Public Health at Texas A&M University invites applications for a 12-month, fully budgeted, tenure-track position available September 1, 1993. E-mail: R. Scott, Chair, Search Committee, Department of Veterinary Anatomy and Public Health, Texas A&M University, College Station, TX 77843-4548. Telephone: (979) 862-5572; FAX: (979) 862-1829.

Texas A&M is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION
In Molecular Genetics of B Cell Development
A position is available to examine mechanisms governing the expression of immunoglobulin and T cell receptor genes in B cells. The laboratory is interested in understanding how B cells use specific subsets of T cell receptor and immunoglobulin genes using nontransformed cells as well as cell cultures. Successful applicants will have the opportunity to study cytokine regulation of B cell development and the use of B cell pre-B cell lines and primary B cells.
**Scientists**

Miles Inc., Diagnostics Division, a worldwide developer of clinical laboratory instruments, is expanding its research and development activities in the fast-growing and challenging area of automated, high sensitivity immunoassays.

There are immediate positions available for forward thinking R&D scientists, at the Ph.D. level, with solid academic training and 3-4 years' industrial or postdoctoral experience in immunochemistry, protein chemistry, or immunoassay development.

Challenging career opportunities are also available for highly motivated scientists at the BS/MS level with immunoassay product development experience.

The Diagnostics Division offers an environment conductive to professional growth as well as an excellent compensation and benefits program. Send CV in confidence to:

**Manager of Human Resources, Technical Staffing, Miles Inc., Diagnostics Division, 511 Benedict Ave., Tarrytown, NY 10591. An Equal Opportunity Employer M/F/H/V.**

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**BS/MS Molecular Biologists**

The field of pharmaceuticals and healthcare is more rewarding than ever as new products create a healthier world population. As one of the leaders in this dynamic industry, Pfizer Inc., a Fortune 100 company, is committed to continuing its remarkable growth.

In bringing science to life, our international research-based company uses advanced techniques to generate new products, new areas of revenue and career opportunities that self-directed, talented people will find stimulating and rewarding.

As part of our continuing expansion in molecular biology, Pfizer has a number of new positions available for BS/MS level scientists. We seek highly motivated individuals who will be able to apply molecular approaches to ongoing drug discovery efforts in a variety of disease areas. Candidates should have broad experience in molecular biology. Experience with cDNA synthesis, library construction/screening, polymerase chain reaction, protein expression, protein purification, or mammalian cell culture would be helpful. Knowledge of a particular disease area is useful but not required. Applicants for positions in the areas of osteoporosis, immunology, inflammation, cardiovascular disease, cancer, and neurosciences are being sought immediately.

The primary R&D facility for Pfizer Inc is located in a southeastern Connecticut shore community, giving easy access to the well known academic and cultural centers of the Northeast and offers the attractions of a New England lifestyle.

We offer competitive salaries and a full range of benefits including medical and dental insurance, paid holidays and vacations, educational assistance, 401k plan, pension plan, relocation assistance and more.

To learn how you can be part of the future of Pfizer, send your resume to: Mr. Kym Goddu, Employee Resources Associate, Pfizer Inc., Central Research Division, Eastern Point Road, Groton, CT 06340. We are an equal opportunity employer.

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**Central Research**

Bringing science to life.
**Faculty Position**

**Climate, People, and Environment**

Department of Atmospheric and Oceanic Sciences and the Institute for Environmental Studies

University of Wisconsin--Madison

The University of Wisconsin-Madison Interdisciplinary Climate, People, and Environment Program is focused on global problems that center on climate and human activity. This professorship is an appointment for an individual with a unique combination of disciplinary research skills, interdisciplinary capabilities, vision and leadership qualities who will accelerate the development of this program. With this program, we intend to continue the tradition of Professor Reid Bryson’s orientation toward interdisciplinary Environmental Studies.

An appointment at the assistant, associate, or full professor level will be considered. The Department of Atmospheric and Oceanic Sciences (AOS), College of Letters and Science, will be the tenure home. The professor will hold a joint appointment in the Institute for Environmental Studies (IES). Responsibilities will include developing a vigorous interdisciplinary research program in AOS and IES involving the coupling between global atmospheric and biological systems. Academic responsibilities will involve teaching and advising graduate and undergraduate students in AOS as well as in IES.

AOS is the nucleus for a rich variety of research programs relating to earth system science. The 17 faculty members study a broad range of topics relating to the atmosphere and oceans. The department is especially strong in the study of climate and large scale satellite applications. The individual will be expected to enhance these departmental strengths through independent and collaborative research.

Approximately 75 IES faculty from 26 departments contribute to research, graduate and undergraduate instruction in a wide variety of environmental areas. The individual will be expected to enhance the representation of global issues within the IES through contributions to the Climate, People and Environment Program.

Preference will be given to individuals with a Ph.D. in atmospheric sciences combined with demonstrated capabilities in quantitative analysis and modeling of coupled systems, evidence of interdisciplinary talents, and leadership skills.

Applicants should send curriculum vitae, a statement of professional goals, and arrange for three letters of reference to be sent to:

AOS/IES Screening Committee
c/o Professor David D. Houghton
Department of Atmospheric and Oceanic Sciences
1225 West Dayton Street
University of Wisconsin--Madison
Madison, WI 53706

To ensure full consideration, completed applications should be received by June 27, 1993. Unless confidentiality is requested in writing, information regarding the applicants must be released upon request. Finalists cannot be guaranteed confidentiality.

THE UNIVERSITY OF WISCONSIN IS AN EQUAL OPPORTUNITY AFFIRMATIVE ACTION EMPLOYER. WOMEN AND MINORITIES ARE ENCOURAGED TO APPLY.

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**Baxter Diagnostics Inc.**

Baxter Diagnostics Inc. is a worldwide leader in supplying innovative diagnostic reagents. Due to our recently formed Biotechnology Center located in Miami, Florida, we currently have the following opportunities available:

**CLINICAL CHEMIST**

Responsibilities include directing a group developing chemistry controls for diagnostics. Applicants must have a Ph.D. degree in Clinical Chemistry with experience in developing chemistry controls for diagnostics. Knowledge and experience in protein purification and enzyme stabilization are highly desirable. Candidates should have documented evidence of progressive administrative and leadership skills. Certification by the American Society of Pathologists in Clinical Pathology and subspecialty boards in clinical chemistry is preferred.

**MOLECULAR IMMUNOLOGIST**

This position will focus on the development of a program to enhance production of antibodies and recombinant proteins in hybridoma or other cell lines. Candidates should have a Ph.D. in Immunology or a related field, experience with mammalian expression systems and a background in Molecular Biology.

**MAMMALIAN CELL EXPRESSION BIOLOGIST**

Responsibilities will include production of immunoglobulins and other recombinant proteins using mammalian cells in a bioreactor and development of vector-host systems for in vitro use. Applicants should have a Ph.D. degree in Immunology, Molecular Biology or Biochemistry and experience with large-scale production of mammalian protein.

Baxter offers a competitive salary and benefits package along with solid career opportunities. Please forward your resume, indicating which position you are interested in, to: Baxter Diagnostics Inc., MS #F700, P.O. Box 520672, Miami, FL 33152. Equal Opportunity Employer. We conduct pre-employment drug testing.

Baxter Diagnostics Inc.
The Howard Hughes Medical Institute anticipates establishing a program of international research grants for the following selected countries in Eastern Europe and the Former Soviet Union: Belarus, Czech Federal Republic, Estonia, Latvia, Lithuania, Hungary, Poland, Russia, Slovak Federal Republic, and Ukraine. Awards will be based on peer review of submitted applications. Program announcements and application forms will be available June 1993. Awards will be announced in the fall of 1994.

It is expected that two types of five-year grants will be awarded: (1) grants for research conducted by scientists in eligible countries at their home institutions and (2) grants for collaborative research conducted jointly by a scientist at an institution in an eligible country and one who is not in an eligible country. Research must probe basic biological processes and disease mechanisms, in such fields as cell biology and regulation, genetics, immunology, neuroscience, and structural biology. Clinical trials or research on health education, health care delivery, or health services is not eligible for support under this initiative.

To be considered eligible for awards, scientists (1) must reside in an eligible country (or, if they currently live abroad, must plan to return to assume academic or research appointments at institutions in eligible countries), (2) must have made significant contributions to fundamental biomedical research, (3) must have published at least one scientific article in a peer-reviewed international English language journal or must provide a preprint in English of a publication arising from recent collaborative research with an established laboratory abroad, and (4) must not have major administrative responsibilities.

It is expected that about 40-60 grants will be awarded for research at home institutions and about 40-60 for collaborative research. Each grant will total about $10,000-$75,000 annually. The total program budget will be approximately $3 million annually for five years.

Note that the program is still under development and is subject to change.

To request placement on the mailing list for the announcement and application, provide to the Institute your name, address, telephone number (including country code), fax number, and e-mail address.

Howard Hughes Medical Institute
Office of Grants and Special Programs
International Program
4000 Jones Bridge Road
Chevy Chase, MD 20815-6789
United States of America

Telephone: 1-301-215-8884
Fax: 1-301-215-8888
Internet: hhmigfil@class.org

The Howard Hughes Medical Institute welcomes applications from all qualified candidates and encourages women and members of minority groups to apply.
POSTDOCTORAL POSITION available to study the biochemical, cellular, and physiological properties of proteins that contribute to the pathogenesis of several neurodegenerative diseases in humans and animals, including Creutzfeldt-Jakob disease, kuru, and scrapie. Ph.D. in biochemistry, virology, or related field required. Send curriculum vitae and three letters of reference to: Dr. David A. Harris, Department of Cell Biology and Physiology, Washington University School of Medicine, 660 South Euclid Avenue, St. Louis, MO 63110.

POSTDOCTORAL POSITION in LIPOPROTEIN MOLECULAR BIOLOGY UNIVERSITY OF MICHIGAN, ANN ARBOR (1) Investigations of apoB domains with the LDL receptor using a novel lipoprotein expression system (PNAS 88, 8580). (2) Gene therapy for lipoprotein disorders. We are using a "gene gun," a particle accelerator that bombard targeted cells with DNA-coated pellets to express LDL- elevating and HDL-lowering genes in mutant animal models. Send curriculum vitae and 3 letters of recommendation to: Dr. Alan D. Attie, Department of Biochemistry, 420 Henry Mall, Madison, WI 53706.

VOLLUM INSTITUTE FOR ADVANCED BIO MEDICAL RESEARCH OREGON STATE UNIVERSITY POSTDOCTORAL POSITIONS available immediately to study the newly described receptors for the proopiomelanocortin peptides (Science 257, 1248-1251, 1992). Ongoing projects include: (1) structure/function analysis using immunoprecipitated cDNA receptor as a model system (Cell 72, 827-834, 1993; Nature 362, 587-588, 1993) and (2) characterization of POMC receptors in the CNS, and their role in stress, neuropeptide, and stress response. Background in molecular biology, protein chemistry, and/or neurobiology is desirable. Applicants should submit curriculum vitae, short statement of research interests, and names of three references to: Dr. Roger D. Cone, Vollum Institute of Advanced Biomedical Research, 3181 S.W. Sam Jack son Park Rd, Portland, OR 97201.

POSTDOCTORAL POSITION LYME DISEASE To study the relationship of the Lyme disease spirochete to its arthropod vectors, vertebrate hosts, and risk factors for human infection. Prefer someone with working knowledge of ticks, vertebrates, and/or spirochetes. Ph.D. in medical entomology, medical microbiology, epidemiology, or related field required. Salary range $24,230 to $29,000. Send curriculum vitae and statement of interest, and 3 letters of reference to: Dr. Robert S. Lane, Department of Entomological Sciences, 2113 West Cold Spring Rd, University of California, Berkeley, CA 94720. Telephone: (510) 642-4838.

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

POSTDOCTORAL POSITION Metabolic Pathway Engineering of Thermophilic, Methylotrophic Bacillus methanolica The postdoctoral position available July 15, 1993, for a Gram positive geneticist or molecular biologist to investigate the mechanism of allosteric regulation of key enzymes in the pathway of L-Lysine biosynthesis in the thermophilic, methylotroph Bacillus methanolica. The successful candidate will work with an existing team of scientists to develop useful gene transfer method, sitespecific mutagenesis, and enzymological approaches to investigate lysine and threonine regulation of key enzymes in the pathway of lysine biosynthesis in thermophilic bacteria. The successful candidate will be associated with the Molecular Biology undergraduate majors at the University of Minnesota. Send curriculum vitae, copies of recent publications and letters of recommendation to: Professor Michael C. Flickinger, Department of Biotechnology and Bioprocessing, University of Minnesota, 1479 Gortner Avenue #240, St. Paul, MN 55108; (651) 625-1700.

The University of Minnesota is an Equal Opportunity Educator and Employer.

POSTDOCTORAL POSITIONS available to study the role of HCMV and REV-6 in transfecting and transacting genes in AIDS progression and AIDS-related cancer. Ph.D. with experience in molecular biology send curriculum vitae and 3 references to: Dr. Leonard Roosevelt, Department of Microbiology and Immunology, BowmanGray School of Medicine, 3001 Martin Luther King, Jr. Boulevard, Wake Forest University School of Medicine, Winston-Salem, NC 27109. Telephone: 207-687-1800. An Equal Opportunity Employer.

POSTDOCTORAL POSITION in molecular endocrinology/developmental biology is available spring 1993 to study the placental/decidual prolactin gene family. See recent references for background information (J. Biol. Chem., 268:3-9, 1993). Experience in molecular biology and protein chemistry preferred. Send curriculum vitae and names of three references to: Dr. Michael J. Soares, Department of Physiology, University of Kansas Medical Center, Kansas City, KS 66130; Telephone: (913) 588-5601; FAX: (913) 588-5677. The University of Kansas Medical Center is an Equal Opportunity/Affirmative Action Employer.

Immediate opening for POSTDOCTORAL ASSOCIATE to develop spectroscopic-based immunological procedures. Previous experience in immunochemistry essential; experience in spectroscopy desirable. Salary $28,000 plus benefits. Apply by October 1, 1993. Position available for 1 year with possible extension for second and third years upon mutual consent. Applications to: Business Manager, Department of Human Microbiology, School of Medicine, University of California, San Francisco, CA 94143. Interested candidates may contact Dr. John M. Conzelman, at the above address.

POSTDOCTORAL POSITION NIH-funded postdoctoral position available immediately to study forebrain applications of mitochondrial DNA analysis. Previous experience with PCR and DNA sequencing desirable. Send (or FAX) curriculum vitae and the names and telephone numbers of three referees to: Dr. Mark Stoneking, Department of Anthropology, 409 Center, Pennsylvania State University, University Park, PA 16802. Telephone: 814-863-1078. FAX: 814-863-1474. An Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL POSITIONS (2) in Molecular Biology. Position A involves research studying the structure-function relationships of growth factors and their receptors, including signal transduction pathways (Wilson H. Burgess, Ph.D.). Position B involves research studying the regulation of FGF and FGF receptor gene expression in vascular cells and on the identification and characterization of FGF-inducible genes (Jeffrey A. Winnik, Ph.D.). Send curriculum vitae and statement of interest, and three letters of reference to: Dr. Robert S. Lane, Department of Entomological Sciences, 2113 West Cold Spring Rd, University of California, Berkeley, CA 94720. Telephone: (510) 642-4838.

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

POSTDOCTORAL POSITION in Neuroimmunology/Neuro-oncology at Harvard Medical School, to begin December 1, 1993. Goal is understanding and manipulating the interaction of the nervous system with the immune system and vice versa. Experience in animal models, immunology, molecular biology, and/or biochemistry required. Send curriculum vitae and names of three recent references to: Dr. L. Vijaya Mohan Rao, UCSD Medical Center (8423), 200 West Arbor Drive, San Diego, CA 92103.

POSTDOCTORAL FELLOWSHIPS AT HARVARD MEDICAL SCHOOL/BRIGHAM AND WOMEN'S HOSPITAL available to study the cellular and molecular mechanisms of autoimmune tissue injury. Experience in immunology and/or molecular biology required. Send resume and three references to: Dr. Vicki Rubin Kelley, Department of Medicine, Brigham and Women's Hospital, Boston, MA 02118. FAX: (617) 732-6592; Telephone: (617) 732-5915. HMS/BWH are Equal Opportunity Employers.

POSTDOCTORAL RESEARCH ASSOCIATE BARLEY GENETICS/QUALITY ENHANCEMENT Plant and Soil Science Department MONTANA STATE UNIVERSITY Non-tenure-track position available 1 July 1993 for two year terms, renewable, and open to both men and women. Duties involve lines for either feed or malting quality and to incorporate these data into ongoing barley genome mapping project. Requirements: Ph.D. in Food Science, Animal Science, Genetics or related field. Application review begins 1 June 1993. Before applying, candidates must have a full position and qualifications in one of the following: Northern, Dr. Tom Blake, Plant & Soil Science, Montana State University, Box 441771, Bozeman, MT 59717-0312. Telephone: 406-994-5085; FAX: 406-994-3933, Email: Blake @Hortseq.montana.edu. An equal opportunity/Affirmative Action/Title IX/ADA Equal Opportunity/Affirmative Action/Veterans Preference.
Bristol-Myers Squibb Pharmaceutical Research Institute is the R&D Division of Bristol-Myers Squibb, a worldwide leader in the discovery and development of innovative pharmaceuticals.

RESEARCH INVESTIGATOR

Macromolecular Structure

We are seeking a Molecular Biologist with a Ph.D. plus 3-5 years' experience to express proteins and domain fragments for multidimensional NMR and X-ray crystallography studies. The ideal candidate will have prepared and purified several different N-15, C-13-enriched protein samples. Please send resume to Dept. PRI-BM-703.

POSTDOCTORAL FELLOWS

Molecular Biology (Transgenic Unit)

A Postdoctoral Fellowship is available for a Molecular Biologist to study gene regulation during development using transgenic and knock-out approaches. Proficiency in Molecular and Cellular Biology is required. Please send resume and three letters of recommendation to Dept. PRI-BM-702.

Molecular Biology

A Postdoctoral Fellowship is available for a Molecular Biologist to conduct basic research on the molecular mechanisms by which tyrosine protein kinases transmit signals in hematopoietic cells. Experiments will require molecular cloning of signal transducing enzymes, mutation analysis, expression in mammalian cells and identification of their products. Please send resume and three letters of recommendation to Dept. PRI-BM-220.

Bristol-Myers Squibb Pharmaceutical Research Institute, Human Resources Dept., P.O. Box 4000, Princeton, NJ 08543. We are an equal opportunity/affirmative action employer. We encourage qualified women and minority candidates to apply.
Faculty Position
Medicinal and Natural Products Chemistry
College of Pharmacy,
University of Iowa

The Division of Medicinal and Natural Products Chemistry of the College of Pharmacy invites applications for a 12-month, tenure-track faculty position at the Assistant Professor level. Applicants must hold the Ph.D. degree in Medicinal and/or Natural Products Chemistry or related fields such as biochemistry, molecular biology, and synthetic organic chemistry. Postdoctoral experience is required. Candidates are expected to bring contemporary chemical, biochemical and/or biological approaches necessary to establish and maintain a rigorous, extramurally funded research program relating to design, discovery, or mechanism of action of biologically active substances. We encourage applicants with interests in research areas such as theoretical medicinal chemistry, medicinal immunology, molecular recognition, as well as other medicinal chemistry and natural products fields. The successful applicant is expected to participate in team-taught undergraduate courses, to develop and teach graduate course offerings and to attract graduate students to the Ph.D. program. Applications will be received until the position is filled. Interested applicants should submit a curriculum vitae; a statement indicating areas of research interest; and the names, addresses and telephone numbers of three references to: John P. N. Rosazzza, Ph.D., Professor and Head, Medicinal and Natural Products Chemistry, College of Pharmacy, University of Iowa, Iowa City, Iowa 52242, (319) 335-9442, FAX (319) 335-8784. The University of Iowa is an Affirmative Action and Equal Opportunity Employer.

Progenics
Pharmaceuticals, Inc.

Progenics is a privately held biopharmaceutical company specializing in the development of therapeutics, vaccines and diagnostics for HIV infection. The company is situated on a suburban campus in Westchester County, 20 miles north of Manhattan. Our rapid expansion is creating opportunities for scientists at all levels. We are particularly interested in individuals for the following positions:

Senior Investigator - Immunology

Strong research background in cellular immunology, generation and characterization of monoclonal antibodies/CTL’s or immunotherapy. Requires a Ph.D. and a minimum of 4 years of postdoctoral experience, industrial experience preferred.

Production/Process Development Scientists

Experience in one or more of the following: production of recombinant proteins in eucaryotic cells using bioreactors; protein purification; pilot scale production. Knowledge of regulatory affairs is an asset.

Staff Scientists/Postdoctoral Scientists

Individuals with a Ph.D. and background in one or more of the following areas: immunology, cell and molecular biology, virology.

Candidates should send their C.V., a 1 page description of their research experience and the names and addresses of three references to:

Human Resources I, Progenics Pharmaceuticals, Inc., 777 Old Saw Mill River Road, Tarrytown, NY 10591
WE'VE MADE IT OVER THE HORIZON

Setting a rapid pace in scientific and financial achievements, San Diego-based GENSIA PHARMACEUTICALS is a top-tier publicly-traded biopharmaceutical company driven by a sense of urgency in bringing innovative products to the acute-care hospital market. Our research programs are focused in the areas of cardiovascular disease, central nervous system, inflammation and diabetes. We have already completed our first multinational Phase III program and are in late Phase III with our second program, which incorporates a new drug and highly innovative computer-controlled delivery device. This success invites additional dedicated individuals to help us expand and share in our future growth.

Our location in San Diego offers many desirable lifestyle and professional benefits in the heart of one of the nation's biotech and academic centers of excellence.

Biochemistry

PHD-level candidates in any of the following will be considered: Biochemistry, Cellular Pharmacology, Cell Biology or Genetics with extensive experience in intermediary metabolism. Responsibilities include measuring levels of normal cellular metabolites and drugs in cultured and isolated cells to study the effects of drugs and other stimuli on cellular metabolism and developing models to evaluate mechanisms of drug action. Candidates with experience in signal transduction including measurement of intermediates in such pathways are also encouraged to apply. Experience in engineering metabolic pathways in mammalian cells and/or yeast will earn special consideration. Code SC/IA.

Immunology

The successful candidate will perform and supervise experimental research focusing on the effects of novel chemicals on animal models of inflammation. Qualified individuals should possess a PhD in Pharmacology/Immunology and at least 3-5 years of postdoctoral experience with specific training in immunohistochemistry, routine histologic techniques and developing models of inflammation. Drug discovery and industry experience are significant advantages. Code SC/GF.

Additional Opportunities

GENSIA's rapid growth will lead us to expand the Research and Development staff throughout the year. Should your talents fall in the areas of Clinical Research, Pharmaceutical Development and Drug Delivery, or Regulatory Affairs, we welcome you to send your resume and a letter indicating your interests and professional plans for our future reference.

Stock options, competitive salaries, progressive benefits and a stimulating work environment support the people who work for GENSI A. Please indicate the position of interest and code and send your c.v. to: GENSI A PHARMACEUTICALS, INC., Human Resources/SC1212, 11025 Roselle St., San Diego, CA 92121-1204. We are proud to offer equal opportunity employment and a culturally diverse workplace to everyone.

ENDOWED CHAIR in BASIC ANESTHESIA RESEARCH DIVISION OF ANESTHESIOLOGY and the RESEARCH INSTITUTE of the CLEVELAND CLINIC FOUNDATION

We are seeking a director for our basic anesthesia research program that is jointly sponsored by the Division of Anesthesiology and the Research Institute. The Cleveland Clinic has a long-standing commitment to excellence in basic and applied biomedical research and an annual research budget of $50 million. The position of this endowed chair recognizes the Clinic's tradition of excellence in anesthesia research, and it is a substantial commitment to basic anesthesia research. The successful candidate will possess a PhD and a minimum of 3 years of postdoctoral experience in clinical research. They should have a proven record of success in obtaining research grants, supervising research staff, and developing and implementing collaborative research projects. Salary and fringe benefits are highly competitive.

A curriculum vitae and names and addresses of three references should be sent to: Dr. Paul E. D'Corleto, Search Committee for the Endowed Chair in Basic Anesthesia Research, Cleveland Clinic Research Institute, NC10, 9500 Euclid Avenue, Cleveland, OH 44195. The Search Committee will receive applications through July 30, 1993.

The Cleveland Clinic Foundation is an Equal Opportunity Employer.

Adhesion Research

The PARKE-DAVIS Pharmaceutical Research Division of Warner-Lambert Company has several excellent research opportunities for a Senior Scientist, a Postdoctoral Research Fellow, and an Associate Scientist in lymphocyte-endothelial cell adhesion research. The positions are located in the Department of Immunopathology at PARKE-DAVIS' research facility in Ann Arbor, Michigan.

Successful applicants will have expertise, as evidenced by a strong publication record, in one of the following areas: adhesion molecules, transcriptional regulation, cellular activation or signal transduction. Experience in molecular biology is essential.

Requirements:

Senior Scientist - Ph.D. and at least 3 years of postdoctoral experience in molecular biology, immunology, biochemistry or a related field.

Postdoctoral Research Fellow - Ph.D. in molecular biology, immunology, biochemistry or a related field.

Associate Scientist - BS/MS and experience in molecular biology, immunology, biochemistry, or a related field.

PARKE-DAVIS offers an excellent compensation program including a competitive salary and comprehensive benefits package. Qualified applicants should submit their curriculum vitae, a brief summary of their research interests, selected publications and a list of three references to Box JDM-92432, Human Resources Department, PARKE-DAVIS Research Division, Warner-Lambert Company, 2800 Plymouth Road, Ann Arbor, MI 48105. "Smoke-Free Work Environment"
Chair with Tenured Faculty Position in Health and Medical Sciences Program
University of California, Berkeley

Chairperson of the Program in Health and Medical Sciences (HMS) at the University of California at Berkeley, with tenured appointment as Associate or Full Professor, 11 months, full time at Berkeley and an equivalent appointment at UCSF. Position will be available as early as January 1, 1994.

Qualifications: Medical degree with background in an appropriate field such as Epidemiology, Behavioral Sciences, Biological Sciences; professional, research, teaching, and administrative experience; evidence of ability to work with health professionals and scientists to integrate scientific and clinical knowledge. Applicant should be at the level of an Associate or Full Professor.

Duties: 1) Administration: To provide leadership for the HMS program. The HMS program is built around the highly innovative 3-year initial Berkeley M.S. phase of a 5-year Joint Medical Program (JMP) with UCSF where the students receive the M.D. degree. The 3 classes of the JMP at Berkeley have 12 students each. The entering class is selected by a bi-campus group from those eligible at UCSF who apply to the JMP. Student applicants desire a highly participative learning experience, heavy exposure to patients, community needs, practitioners, public and private health care and other institutions. They also complete an independent health-related M.S. research thesis of their choice. This requires appropriate elective coursework with an increasing emphasis on epidemiological and statistical preparation. The basic preclinical subjects are increasingly problem-oriented and heavily integrated with clinical material. The curriculum also emphasizes health policy, behavioral and ethical content. The goal of the JMP is for graduates to be capable of being excellent primary care physicians or of assuming a leadership role in any specialty or subspecialty but able to build on a base of humane, caring, broad, and scientifically well-grounded training.

2) Research: The Chair of HMS is expected to take advantage of the HMS location at a major general campus and to create effective research linkages with scholars of outstanding expertise in the increasingly health sector-relevant areas such as anthropology, demography, economics, education, epidemiology, ethics, geography, humanities, law, political science, public policy, public health, sociology, statistics. At the same time, the Chair will provide a bridge between the biological and clinical sciences and to the UCSF health science campus.

3) Teaching: Develop and teach courses in the Chair's area of expertise and participate in curriculum planning for the JMP students and for other health-related groups on the campus, such as students in the HMS generic counseling program. Participate in the counseling of HMS students and thesis supervision. Encourage and participate in research on medical education.

Salary negotiated in accordance with qualifications and level and step of appointment. Send by August 15, 1993. curriculum vitae, relevant publications, names of three potential referees, and, a statement of research, teaching, and administrative experiences and interests to: Chair, Search Committee for Chair of Health and Medical Sciences, 570 University Hall, University of California at Berkeley, Berkeley, CA 94720.

The University of California is an Equal Opportunity, Affirmative Action Employer.

DIRECTOR
Division of Health Care Technology

The American Medical Association is seeking an experienced health care professional to direct current policy research, as well as develop new programs and initiatives in the area of technology assessment. Management responsibilities will include activities in clinical decision making, outcome measures, cost effectiveness analysis, and the Diagnostic and Therapeutic Technology Assessment (DATTA) program. These assessment issues will be expected to have a major impact on health care reform.

An M.D. degree is preferred, though a Ph.D. will be considered. Respondents must have previous research experience, familiarity with a broad range of technology and biomedical issues, and the ability to deliver effective presentations. Knowledge of clinical epidemiology, medical decision making, statistics, clinical research design and guideline development will be expected. Previous fiscal, staff and project managerial experience required. Familiarity with physician, patient and third-party payor needs desirable.

This individual will be an important member of our staff and will receive an excellent compensation package. CVs may be sent to: Carol Sprague, Division of Placement, Dept. CS-SBA-2488, AMERICAN MEDICAL ASSOCIATION, 515 N. State Street, Chicago, Illinois 60610. Equal Opportunity Employer.

American Medical Association
Physicians dedicated to the health of America

515 North State Street
Chicago, Illinois 60610
Aviron

Aviron is an exciting new San Francisco Bay Area biopharmaceutical company focused on the prevention of viral diseases. Aviron is using proprietary technology to develop live virus vaccines for major respiratory viruses and herpesviruses. This is an opportunity to work with an experienced management team, talented scientists, and a highly committed and distinguished scientific advisory board.

Staff Scientist positions require a Ph.D. degree and a minimum of two years of postdoctoral experience. Positions available:

**Respiratory Virus Vaccine Development**
- Molecular virologists to develop innovative attenuation strategies. Broad experience with all aspects of molecular biology required; experience with reverse genetics required.
- Virologist to discover and characterize molecules regulating replication. Experience with molecular biology and in vivo models required.

Research Associate positions require a baccalaureate or M.S. degree and a minimum of two years of experience. Positions available:

- Virology
- Nucleic Acid Sequence Analysis
- Molecular Biology
- Cell Culture

Don't miss this opportunity to make an impact on this young and dynamic company. Please send your c.v. and list of references to:

Aviron
Human Resources Dept. HR-3
1815 Old Country Road
Belmont, CA 94002

PharMingen is a rapidly growing biotechnology company that develops, manufactures, and markets cutting-edge products for immunology, cell biology, and molecular biology research. PharMingen offers a competitive salary and benefits package, including a 401(k) plan, as well as a stimulating work environment at a beautiful coastal location in San Diego, California.

We invite all qualified candidates with strong scientific background to play a key role in the development of our products to serve the research community. Our continuous growth has resulted in the following opportunities:

**QC Specialist - Flow Cytometry**
Cell analysis and immunophenotyping using flow cytometry for validation and release of reagents for human immunology products. Background in hybridoma technology a plus. Background in immunology and cell biology; use of fluorochromes. BS/MS in Biological Science or equivalent; 2 years experience in prep of cells for flow cytometry analysis. Organizational skills for experimental design; interaction with various functional departments.

**Scientist - Analytical Cytology**
Characterization of monoclonal antibodies specific for human cell surface antigens through immunostaining, immunophenotyping and flow cytometry. Background in cytokine analyses and immunochromatographic analyses (Western blotting, ELISA). Immunoassays geared to produce and reactant development using fluorochromes. MS/PhD in Immunology with 2-3 years experience in industrial setting in product development. Written and oral skills for participation in symposia.

**Research Scientist - Cellular Immunology**
Characterization of molecules governing cellular adhesion. Previous experience with leukocyte migration and role of adhesion molecules in inflammation a plus. Establish various assays to evaluate and QC monoclonal antibodies specific for a variety of cell adhesion molecules. Ph.D or BS/MS with 3-5 years relevant experience working with adhesion molecules. Strong preparatory and analytical (immunochemical) background a must. Excellent written and oral communication skills.

**Protein Biochemist/Immunochemist**
Lymphokine and antibody isolation/conjugation. BS/MS in Biochemistry with minimum 3 years experience. Strong preparatory and analytical (immunochemical) background a must. Excellent written and oral communication skills.

For immediate consideration, please send your resume, indicating position of interest, to: PharMingen, Human Resources Manager, 11555 Sorrento Valley Road, San Diego, CA 92121.

Equal Opportunity Employer.
GLAXO INSTITUTE FOR MOLECULAR BIOLOGY

Research at the Glaxo Institute in Geneva is directed towards the discovery of novel molecular mechanisms that could be used as drug targets to treat serious diseases. In particular, research is directed in the long term at disorders of the nervous system, allergies and inflammatory conditions. We are undertaking a substantial new initiative in molecular and cellular studies of membrane ion channels and seek

POSTDOCTORAL FELLOWS for Ion Channel Research

Applications are invited from candidates with a background in studies of receptors, channels or transporters using biophysical and/or molecular biological approaches. The successful candidates will join a growing multidisciplinary and international group of researchers investigating the structure and function of potassium channels and novel ligand-gated ion channels.

We offer an excellent compensation and benefits package and significant opportunities for career development. Geneva, centrally situated in an attractive part of Europe, has many advantages as a place to live. The Institute for Molecular Biology is part of the Glaxo group, one of the world’s most successful health-care companies which has an outstanding reputation for the quality of both its research and products. The Institute provides a dynamic international research environment; it actively encourages the publication of results and presentations at professional meetings, and it has numerous collaborative projects with leading academic groups.

If you are interested in these positions, please send your curriculum vitae with a list of publications and the names of three referees to: Rita Gloor, Personnel Manager, Glaxo Institute for Molecular Biology, 14, chemin des Aultx, 1228 Plan-les-Ouates, Geneva, Switzerland.

Informal enquiries can be directed to Professor R. Alan North, Vollum Institute, Oregon Health Sciences University, Portland, OR97201, USA (phone: 1-503-4945463; fax: 1-503-4945470) or to Dr. Eric Kawashima at the Glaxo Institute (phone: 41-22-7069666; fax: 41-22-7948507).

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LIGAND Pharmaceuticals, an acknowledged leader in the field of intracellular receptor technology, seeks to provide novel drugs for the treatment of human disease. A newly formed group is focused on interferon signal transduction and its control of gene expression. Current efforts are designed to understand the interferon signaling system in more detail, expand the interferon model to other systems and exploit this technology to identify novel drug candidates. This group offers an excellent opportunity to combine advanced research with a state-of-the-art drug discovery effort.

The open positions require a PhD and a minimum of two years of postdoctoral experience in the following areas:

CELL BIOLOGY AND IMMUNOLOGY with extensive cell culture experience including functional assays of macrophage and lymphocyte proliferation and activation. A background in cytokine/growth factor research is extremely desirable.

MOLECULAR AND CELL BIOLOGY with experience in protein kinase and phosphatase research. Knowledge of signal transduction mechanisms of specific cytokines or growth factors is also required.

LIGAND provides an exciting intellectual environment with modern research facilities. We offer a competitive salary and benefits package, a premier team of colleagues and ample opportunities for scientific impact. Please forward your c.v. to: LIGAND Pharmaceuticals, Human Resources, Dept. JR, 9393 Tawnee Centre Drive, San Diego, CA 92121. EOE.
**MOLECULAR BIOLOGIST/ BIOCHEMIST**

J.T. Baker is a Total Quality company and a leader in the laboratory chemicals business since 1904 with products of superior quality, purity and performance. We are headquartered in Phillipsburg, NJ, directly across the Delaware River from the Lehigh Valley of Pennsylvania (Allentown/Bethlehem/Easton). Business operations are worldwide.

We are seeking a highly motivated candidate for the position of Molecular Biologist/Biochemist. The area of focus is our bioreagents product line.

Key responsibilities include applications and methods development, providing technical support to customers, assisting Marketing, Sales and Operations with technical input, and preparing and presenting seminars.

The candidate should have at least an M.S. in biochemistry or molecular biology with two to five years hands-on experience in biochemical and molecular biological techniques, such as gel electrophoresis, enzyme assays, PCR, and related methodologies. He/she should also have excellent oral and written communication skills and be willing to do some travel.

J.T. Baker offers a competitive salary and comprehensive benefits package including incentive, savings, dental and tuition reimbursement plans. In confidence, interested candidates should send their resume and salary requirements, along with a cover letter which is responsive to each requirement and preference, to Human Resources, J.T. BAKER, INC., 222 Red School Lane, Phillipsburg, NJ 08865. Direct Applicants Only - No Telephone Calls. Resume must be received by May 28, 1993.

Equal Opportunity Employer M/F

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**MARINE SCIENTIST—TWO POSITIONS**

The West Coast National Undersea Research Center, at the University of Alaska Fairbanks, is a recently established center for NOAA’s National Undersea Research Program. The Center’s mission is to promote, facilitate, and support quality undersea research along the West Coast of the United States including the western Arctic plus Antarctica.

**SCIENCE DIRECTOR:** The Science Director will be responsible for the direction and coordination of the undersea science program for the U.S. West Coast including the western Arctic plus Antarctica. Duties include (a) develop effective communication with research community, (b) develop and implement programmatic research themes, (c) prepare annual announcement of research opportunities and coordinate proposal review, (d) assist with preparation of the Center’s annual report and proposal to NOAA, and (e) some supervision of Center staff. The Science Director will report to the Center Director. The Science Director will have the opportunity to maintain an independent research program.

**STAFF SCIENTIST:** The Staff Scientist’s duties will be to interact and correspond with scientists interested in undersea research, particularly in the region of Oregon and Washington. The Staff Scientist will represent the Center at selected professional meetings and workshops. Also, the Staff Scientist will assist the Director and Science Director in: a) preparing the annual announcement of research opportunities, b) conducting peer reviews of research proposals received, c) writing the annual Center proposal to NOAA, d) expediting submission of reports from principal investigators, and drafting the annual report to NURP. The Staff Scientist will have the opportunity to maintain an independent research program.

Both positions are 12-month per year appointments. Required qualifications include an advanced degree (Ph.D. preferred) in Oceanography, Fisheries, or Marine Sciences and research experience with manned submersibles and ROVs or other undersea technology. Review of applications will begin June 7, 1993, and continue until the position is filled. Submit resume and names and addresses of three references to: Director, West Coast National Undersea Research Center, School of Fisheries and Ocean Sciences, University of Alaska Fairbanks, Fairbanks, AK 99775-1090.

The University of Alaska is an AA/EQ employer and educational institution.

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**SENIOR SCIENTIST**

**Allergy**

There are a number of components to success in the pharmaceutical research process. The most important is the people. And at Schering-Plough, we hire the best talent in the industry, and provide them with the technical resources they need to do their best work: the most advanced instrumentation; the latest computerized systems; modern lab facilities. Currently, we are spending more than $300 million on R&D, and have just completed a $30 million, 1 million square foot R&D facility in Kenilworth, New Jersey.

We are seeking a Senior Scientist to conduct on-going in vivo studies with cytokines and airway inflammation. This work will initially focus on evaluating antibodies to IL-5 for activity in relevant models of allergic disease. Studies will also be conducted to fully characterize the cellular and cytokine infiltration into allergic airways, and to correlate this data with changes in airway reactivity.

To qualify for this highly visible and challenging position, you must offer a PhD in Physiology (or related field) with 0-2 years of postdoctoral training.

We offer a highly competitive salary commensurate with your experience and education, superior benefits, and all the support an international industry leader can offer. For confidential consideration, please send your resume, indicating salary requirements, to: Ms. Kathy Bassinger, Schering-Plough Research Institute, Box DD-93-10, 2015 Galloping Hill Road, Kenilworth, New Jersey 07033. We are an equal opportunity employer.

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**The science of success**

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**RESEARCH SCIENTIST**

VIAGENE, INC., is engaged in developing gene transfer therapeutics for viral diseases, cancers and genetic disorders. Our first gene transfer product for combating HIV is entering clinical trials and we expect to be one of the first companies to bring such products to market.

Qualified candidates will have a Ph.D. or M.D./Ph.D. with emphasis in Cell Biology, Immunology, and Hematopoiesis, and experience in Biomedical Research in an academic or industrial setting.

Located in San Diego, California, one of America's most attractive centers for biomedical research and education, Viagene offers competitive salaries and an excellent benefits package, including a stock option plan.

Please forward your CV to: Attn: Human Resources, Viagene, Inc., 11075 Roselle Street, San Diego, CA 92121. EOE M/F/D/V.

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VIAGENE, INC.
POSITIONS OPEN

NEUROANATOMY/NEUROLOGY
RESEARCH FELLOWSHIP

Reynolds Rich Smith Smith Fellowship available at Harvard Medical School for research training in development and function of the central nervous system relevant to the prevention and treatment of autism and related diseases. For individuals who have completed, or are in process of completing, requirements for board certification in neuroanatomy or neurology, and will devote a majority of time to research training. Submit curriculum vitae, research proposal (2 pages or less), and sponsoring letter from research mentor by June 1, 1993, to: Reynolds Rich Smith Smith Fellowship, John P. Neuragu, Ph.D., Program in Neuroanatomy, Children's Hospital, 300 Longwood Avenue, Boston, MA 02115. Telephone: 617-735-6366, FAX: 617-735-6777. Women and minorities are encouraged to apply.

LABORATORY RESEARCH ASSOCIATE BARLEY AND WHEAT GENETICS

Plant and Soil Science Department

Non-tenure-track position available 1 July 1993 for three years to convert RFLP markers to STS/PCR markers, sequence PCR products, manage molecular genetics laboratory. Required qualifications: M.S. in Genetics related field, experience in cloning, genomic library management, DNA sequencing, lab management. Application review begins 1 June 1993. Before applying, candidates must contact full position description from: Dr. Tom Blake, Plant & Soil Science, Montana State University, Bozeman, MT 59717-0831. Telephone: 406-994-9565; FAX: 406-994-3933. Email: Blake @Hordeum.osca.montana.edu. ADA/Equal Opportunity/Affirmative Action/Veterans Preference.

MOLECULAR NEUROSCIENCE

An NIH STAFF FELLOWSHIP position is available to study various aspects of gene expression following nerve injury or persistent noxious stimulation using new and novel molecular techniques in a new, fully equipped laboratory. Research interests should be focused on neurons of the dorsal root ganglia and spinal cord. Applicants should have a broad and in-depth knowledge of molecular biology, and postdoctoral experience. Please send curriculum vitae, summary of research experience, current research interests, and three letters of recommendation, to: M. A. Ruda, Ph.D., Cellular and Molecular Mechanisms of Action of Neuronal Enzymes Branch, Department of Experimental and Clinical Pharmacology, National Institute of Mental Health, National Institutes of Health, 9000 Rockville Pike, Rockville, MD 20892. NIH is an Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIPS available (U.S. citizens/permanent residents) to address issues of signaling specificity for G-protein coupled receptors and cytokine signaling systems. Research efforts involve a multifaceted approach utilizing tools of molecular biology, protein chemistry and cell biology to identify and examine molecular determinants of signaling specificity and to define the receptor’s microenvironment. Interactive research environment in a newly equipped lab. Submit curriculum vitae and three letters of reference to: Stephen M. Lanius, Ph.D., Department of Pharmacology, Medical University of South Carolina, 171 Ashley Avenue, Charleston, SC 29425. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOW—Position open for Postdoctorate Fellow to study systemic and renal hemodynamics and changes in vasoactive humoral substances and their interaction with divalent ion nutrition. Ph.D. in physiology or pharmacology required. This position is for two years of support. Salary is negotiable. Closing date June 15, 1993. Submit curriculum vitae to: Edward Zawada, M.D., Professor and Chairman, University of South Dakota School of Medicine, P.O. Box 5046, Sioux Falls, SD 57117-5046. Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

IMMUNOLOGY
POSTDOCTORAL FELLOWSHIP
UNIVERSITY OF VIRGINIA

Applications are invited for a postdoctoral position in autoimmunity research. Projects relate to tolerance induction and peptide antigen mimicry in autoimmune models. Strong background in basic immunology is essential. Send curriculum vitae, names and telephone numbers of three references to: Dr. Kenneth Tung, Department of Pathology, Box 214, University of Virginia, Health Sciences Center, Charlottesville, VA 22908.

POSTDOCTORAL FELLOWSHIP/RESEARCH ASSOCIATE position is available to investigate protein phosphorylation and Ca2+ signaling mechanisms associated with contraction of vascular/smooth muscle cells. Studies include experiments with intact and permeabilized smooth muscle as well as imaging techniques with cultured cells. Salary is competitive and negotiable. Position is for 2 to 3 years. Candidates should send curriculum vitae and 2 letters of reference to: Dr. J. Di Salvo, Department of Medical and Molecular Pharmacology, School of Medicine, University of Minnesota-Duluth, 10 University Drive, Duluth, MN 55812-2487. UMD is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOW to study plant-related signaling mechanisms in alginate synthesis, a potential virulence factor, in the phytopathogen Pseudomonas syringae. Prior experience with DNA/RNA transfection and site-directed mutagenesis is required. The work will be performed at Oklahoma State University, Stillwater, Oklahoma. Annual salary is $24,000. Resumes to: Dr. C. Bender, 110 Noble Research Center, OSU, Stillwater, OK 74078, or to: Dr. C. Chabot, Department of Microbiology, M/C 790, UIC, 901 South Wokokot, Chicago, IL 60612-7344. OSU and UIC are Equal Opportunity/Affirmative Action Employers.

POSTDOCTORAL RESEARCH FELLOWSHIP

A position is available to study the cellular and molecular mechanisms by which insulin regulates gene expression in mammalian cells. Applicants should have a Ph.D. and/or M.D. with a strong background in cellular and molecular biology. Send curriculum vitae and the names of three references to: Dr. Leonard Jarrett, Chairman, Department of Pharmacology, Medical School, University of the Pennsylvania School of Medicine, 6 Gates Building, 3400 Spruce Street, Philadelphia, PA 19104. Submit curriculum vitae, names or three references to: Dr. Richard M. Salvo, Department of Pharmacology, Medical School, Ohio State University, 120 VBS, Lincoln, NE 68583-0908; FAX: 402/472-9690. Email: RDONIS@UNL.EDU or RDONIS@UNLVAXI. UNL is committed to a pluralistic campus community through Affirmative Action and is responsive to the needs of dual-career couples. We assure reasonable accommodation under the Americans With Disabilities Act.

POSTDOCTORAL RESEARCH ASSOCIATE MOLECULAR ViroLOGY

Seeking applicants for a two-year, non-tenure-leading Postdoctoral Research Associate position dependent upon approval of extramural funds. Will join an active research group studying the roles of post- viruses and carry out research aimed at understanding the function of cis- and trans-acting elements in the genomes of BVDV and related postvirus. Applicants should hold a doctoral degree and have experience in working with the molecular biology of prokaryotic/eukaryotic cells and/or viruses. Significant experience with relevant molecular biology techniques (i.e., cloning, sequencing, blotting, PCR) is necessary. Knowledge of classical virological techniques and eukaryotic cell biology would be advantageous. Requires an innovative researcher with relevant experience and primary research interests in molecular virology and pathogenesis. Submit curriculum vitae and names of two referees by July 15, 1993, (or until candidate is found) to: Dr. Ruben Donis, Department of Veterinary and Biomedical Sciences, University of Nebraska-Lincoln, 120 VBS, Lincoln, NE 68583-0908; FAX: 402/472-9690. Email: RDONIS@UNL.EDU or RDONIS@UNLVAXI. UNL is committed to a pluralistic campus community through Affirmative Action and is responsive to the needs of dual-career couples. We assure reasonable accommodation under the Americans With Disabilities Act.

POSTDOCTORAL RESEARCH ASSOCIATE BIOCHEMISTRY

Two projects available at Tandyl Air Force Base in Panama City, Florida, for recent (last 5 years preferred) doctoral degree recipients in biochemistry: (1) development of new techniques for isolating protein phosphatases and enzymes. The project involves isolation, characterization and development of new methods for isolating protein phosphatases and enzymes. One project involves bacterial degradation of organic pollutants in groundwater. The other involves isolation, characterization and development of new methods for isolating protein phosphatases and enzymes. Contact: Postgraduate Research Program/TAO8, Science/Engineering Education Division, Oak Ridge Institute for Science and Education, P.O. Box 1176, Oak Ridge, TN 37831-0117, Telephone: (615) 587-3456.

RESEARCH ASSOCIATE—NEW YORK. The Division of Gastroenterology of the Brookdale Hospital Medical Center seeks a Research Associate possessing a Ph.D. degree with expertise in gastrointestinal physiology, gastrointestinal motility, neural and peptide control of gastrointestinal function to operate the clinical motility laboratory and to lead the research in the division. Responsibilities also include teaching fellows. Submit curriculum vitae and three references to: Halya Levin, M.D., Division of Gastroenterology, The Brookdale Hospital Medical Center, Linden Boulevard at Brookdale Plaza, Brooklyn, NY 11212. Equal Opportunity Employer.

ASSOCIATE RESEARCH SCIENTIST is needed with at least 3 years of postdoctoral experience in molecular genetics and biochemistry. The experience must include DNA cloning and related methods including PCR methods, construction of transgenic mice, disruption of murine genes by homologous recombination, generation of chimeric mice. The position is for 3 years. Send curriculum vitae to: Dr. David Hirsch, Department of Biochemistry and Molecular Biophysics, Columbia University, 630 West 128th Street, New York, NY 10027. Columbia University takes Affirmative Action to ensure Equal Opportunity.
It is becoming increasingly clear that human health is intricately related to our chemical and physical surroundings. The development of environmental strategies for dealing with these relationships is often based on health risk assessments. Recognizing the interdependence between health and environment, the

Medical University of South Carolina offers a graduate program in Environmental Risk Assessment leading to the Doctor of Philosophy degree.

The core curriculum of the program consists of courses in risk assessment, biostatistics, epidemiology, systems science, environmental biology and toxicology, policy and regulatory issues, and two interdisciplinary case studies courses. This core is complemented with electives in advanced topics of risk assessment, such as exposure assessment and pharmacokinetics, risk modeling, and computing. Furthermore, electives in various areas of biology, toxicology, health-related sciences, and policy studies are available. The program is administered by the Department of Biostatistics, Epidemiology, and Systems Science, under the direction of David G. Hoel and Eberhard O. Volz, but also draws expertise from basic science and policy departments.

Students with a Bachelor's or Master's degree in the biomedical, mathematical, or engineering sciences are encouraged to apply. Financial support is available on a competitive basis. For further information contact: Ms. Joy Shankley, Department of Biostatistics, Epidemiology, and Systems Science, Medical University of South Carolina, Charleston, SC 29425-2600, (803) 796-1576.

Department of Agronomy, University of Illinois at Urbana-Champaign invites applications for a full time Assistant Professor of Soil Fertility/Mineral Nutrition. Emphasis on soil-plant relations including soil fertility, mineral nutrition, nutrient cycling, nutrient use efficiencies, new technolo- gies for nutrient management, or environmental fate of nutrients. 8-month tenure-track position, 75% research, 25% teaching; opportunity for summer appt. Develop successful extramurally-funded research program in soil fertility/mineral nutrition addressing fundamental and adaptive problems of nutrient management in soils, mineral nutrition, and nutrient cycling in Illinois and other midwestern cropping systems. Field-based research supported by complementary greenhouse and laboratory strategies. Teach minimum of one course per academic year. Advise graduate and undergraduate students. Ph.D. in Soils, Agronomy, or related discipline and strong training and experience in soil fertility/chemistry and mineral nutrition required. Additional training in plant physiology, experimental design, and applied statistics and broad knowledge of scientific principles to soil management and crop production practices desired. Salary commensurate with training and experience. Starting date January 21, 1994, or when suitable candidate available. Closing date September 15, 1993, or until suitable candidate identified. Submit application dossier consisting of a personal statement of research and teaching goals, and reasons for interest in the position; curriculum vitae; copies of transcripts; and three letters of reference to Professor G. H. Heichel, Head, Department of Agronomy, University of Illinois at Urbana-Champaign, 1102 South Goodwin Avenue, Urbana, Illinois 61801-4798. Telephone: (217) 333-9400. For additional information contact: Dr. Wayne L. Barwatt, (217) 333-9480.
The UNIVERSITY OF ILLINOIS IS AN AFFIRMATIVE ACTION/EQUAL OPPORTUNITY EMPLOYER. PLEASE CITE ANNOUNCEMENT NUMBER 3735-493C WHEN APPLYING.

Controllable Gene Therapies

Medicines for the Next Millennium

GENEMEDICINE, INC. is a new company focused on the development of controllable in vitro gene therapies. We are seeking a select group of bright and highly motivated individuals to pioneer our scientific and clinical programs.

STAFF SCIENTISTS

We wish to appoint experimental scientists to lead groups responsible for the design and implementation of our scientific activities. These positions have significant growth potential and are available in the following areas:

MOLECULAR & CELL BIOLOGY

You will be responsible for the design and development of DNA vectors that have tissue-specific function and provide for controlled activation of in vitro gene expression. Applicants must have a Ph.D. plus 2 to 5 years experience.

VECTOR PRODUCTION & PROCESS DEVELOPMENT

You will be responsible for the design, development and scale-up of DNA vector production and purification to GLP and GMP standards. Applicants will have a Ph.D. or a M.S. and substantial industrial biotechnology experience.

PHARMACOLOGY/PHARMACOKINETICS

Your responsibilities will be the design, development and analysis of studies to determine the behavior of DNA vectors in normal and diseased animal models. Applicants must have a Ph.D. or D.V.M. plus 5 years experience in pharmacology, pharmacokinetics or pathophisiology.

FORMULATION SCIENCE

You will be responsible for optimizing the formulation of DNA vectors. Applicants will have a Ph.D. and at least 2 years experience in the formulation of colloidal systems.

PHYSICAL AND BIOPHYSICAL ANALYSIS

Your role will be to assess the physical and biophysical characteristics of DNA vectors. You will have a Ph.D. and at least 2 years relevant experience in determining the colloidal properties of macromolecules and particulate systems.

STAFF ASSOCIATES

We wish to make a number of technical appointments in each of the areas given above. We seek individuals with demonstrated technical skills, strong work ethic, excellent academic training and a desire to learn and to grow. Candidates will have a B.S. or a M.S. plus at least 2 years experience.

GENEMEDICINE is backed by several of the most successful venture capital investors in biotechnology, has strong ties to the laboratories of its scientific founders at Baylor College of Medicine and is located close to the Texas Medical Center—the world's largest medical research facility. We offer a highly competitive compensation package including stock options. For confidential consideration, please send your CV and a letter outlining the applicability of your background for the position of interest to:

GENEMEDICINE, INC., Human Resources Director, 8080 North Stadium Drive, Suite 2100, Houston, TX 77054-1823

An Equal Opportunity Employer

GENEMEDICINE, INC.
Assistant Professor/Associate Professor
Gross Anatomy

Applications are being accepted for a tenure-track gross anatomy position at the assistant or associate professor level in the Department of Anatomy, College of Medicine, University of South Florida, Tampa, Florida. Earliest starting date for this position is September 1, 1993.

Candidates are required to hold a Ph.D. in anatomy or cell biology, or a combination of Ph.D./M.D. Post-doctoral experience and prior teaching in a medical school gross anatomy course are mandatory requirements. Preference will be given to applicants with research interest and experience in cell and molecular biology applied to areas of neuroscience, reproductive or cardiovascular systems. Teaching responsibility involves participation in a one-term dissection-based gross anatomy course for medical students and graduate level courses related to their specialty.

The College of Medicine, University of South Florida, is a 22-year old medical school with a class of 96 Freshman students. The medical curriculum is traditional, but changes to a more contemporary curriculum are contemplated within the next couple of years.

Applicants should forward curriculum vitae, statement of research interests, and names of three references by July 15, 1993 to:

Dr. Johannes A. G. Rhodin, M.D., Ph.D., Chairman
Department of Anatomy, College of Medicine
University of South Florida
12901 Bruce B. Downs Boulevard, MDC Box 6
Tampa, Florida 33612-4799

The University of South Florida is an Equal Opportunity/Affirmative Action/Equal Access Employer.
Cephalon, Inc.

Widely recognized as a leader in neurological research, specializes in the discovery and development of breakthrough treatments for neurological pathologies including ALS, Alzheimer's disease, stroke and narcolepsy.

Calcium Neurotoxicity

In our Biochemistry Department, we seek a Senior Scientist Enzymologist to head efforts directed at the neurotoxicity of calcium overload. The focus of this position is on the involvement of the calcium-activated protease calpain I in neurotoxic processes, and the development of therapeutically useful calpain I inhibitors. Responsibilities include supervision of a research team within the department, as well as coordination with chemists, pharmacologists, and molecular biologists in other Departments.

Candidates must have a minimum of 5 years post-doctoral experience in enzymology, a significant publication record, and a history of supervising PhD and associate scientists.

Reply to job RGS.

Signal Transduction

The Signal Transduction Group seeks highly motivated and talented Ph.D. Research Scientists to join multidisciplinary programs focused on molecular mechanisms of neuronal survival. The following positions require at least two years postdoctoral experience and the ability to interact in an exceptionally collaborative research environment.

Enzymology/Biochemistry

To define modes of interaction of neurotrophic small molecules with defined molecular targets. Pivotal position requiring medicinal chemistry approaches. A prior background in tyrosine kinases and industrial experience preferred. Reply to job CD1.

Molecular Neurobiology

To study molecular mechanisms of neuronal survival. Should have molecular biology expertise and a background in receptors and/or intracellular second messenger systems. Hands-on experience with primary neuronal cell culture is desired. Reply to job CD2.

Cephalon, Inc. offers an exciting research environment, and is committed to your professional development, encouraging publications and attendance at scientific meetings. We have new extensive laboratory facilities, located in suburban Philadelphia and providing easy access to the Atlantic coast region, from New York City to Washington, D.C. The company provides excellent compensation and benefits, including a 401K plan and equity participation. For confidential consideration, please send your resume and indication of position of interest to:

Cephalon, Inc.
Attn: Janet Marie Kuders
145 Brandywine Parkway
West Chester, PA 19380-4245

An equal opportunity employer.

Drug Metabolism

There are a number of components to success in the pharmaceutical research process. The most important is our people. At Schering-Plough, we hire the best talent in our industry. Then, we provide them with the technical resources they need to do their best work: the most advanced instrumentation; the latest computerized systems; modern lab facilities. Finally, we spend over $500 million annually on R&D, and have just completed a $300 million R&D facility.

Commitment of this scope has helped us achieve $4 billion in annual sales around the world.

SENIOR PRINCIPAL SCIENTIST

You will have overall responsibility for the development of analytical methods in the Department of Drug Metabolism and Pharmacokinetics. These methods will include GLC, HPLC, GCMS and LC-MS, and are essential for both the support of new drug discovery as well as for all the programs leading to NDA and/or HRD submission. In addition, you will oversee early phase drug metabolism support for new drug discovery, and assume responsibility for clinical drug metabolism studies in therapeutic areas of CNS.

The successful candidate will offer a PhD along with a minimum of eight years of laboratory and management experience in drug metabolism or bioanalytical research. A thorough knowledge of modern analytical instrumentation, proven supervisory abilities and strong oral/written communication skills are essential; a good background and knowledge in drug metabolism research is important. Please refer to Position SPS on resume.

ASSISTANT SCIENTIST

As an Assistant Scientist in this dynamic research area, you will analyze biological samples using immunoassay and/or other techniques, and participate in analytical method development and validation. You should have a BS in a relevant discipline with 2-5 years of experience (or an MS with 0 years of experience), a strong background in immunoassay techniques, and demonstrated knowledge of computer data reduction program. Please refer to Position AST on resume.

We offer salaries commensurate with your experience and education, a generous benefits package and the opportunity to join a prestigious organization with a demonstrated commitment to research. For confidential consideration, please send your resume, indicating the code for your position of interest and salary history/requirements, to: Mr. William E. Decker, Human Resources Manager-Research, Schering-Plough Research Institute, 2015 Galloping Hill Road, Kenilworth, NJ 07033-0539. We are an equal opportunity employer.

The science of success

Schering-Plough Research Institute
POSITIONS OPEN

GENOME INFORMATICS

POSTDOCTORAL POSITION available immediately at the Univer-
sity of GEORGIA to develop NEURAL NETWORKS to assemble physical maps. Work involves both the development and testing of new physical mapping algorithms as well as their application to three genomic regions: a yeast, a fungus, and a region of a human chromosome. Send curriculum vitae and three references to: Dr. Michael Grubay, Department of Cancer Biology, Harvard School of Public Health, 665 Huntington Avenue, Boston, MA 02115.

POSTDOCTORAL POSITION MOLECULAR IMMUNOLOGY

A position is available for a postdoctoral fellow to study the biology of cytotoxic T lymphocytes with particular focus on the mechanisms of target cell lysis. Experience with molecular biology is desirable. Please send curriculum vitae and the names of three references to: Dr. Michael Grubay, Department of Cancer Biology, Harvard School of Public Health, 665 Huntington Avenue, Boston, MA 02115.

POSTDOCTORAL FELLOW, Molecular Evolution/Computational Biology. Position available Sep-
tember 1, 1993, in Department of Biomedical Compu-
ter Sciences, University of Nevada, Las Vegas, Las Vegas, Nevada, to perform computational analysis of RNA virus genomic sequences. Strong analytical skills are desirable. Submit curriculum vitae and three letters of reference to: Dr. Marcella A. McClure, Department of Biological Sciences, University of Nevada, Las Vegas, Box 454004, Las Vegas, NV 89154-4004 or inquire 714-856-6178 or Email: mar@shiva.bio.ucla.edu

ASSISTANT EXTENSION CITRUS MANAGER/SCIENTIST AND ASSISTANT PLANT PHYSIOLOGIST

The Department of Botany and Plant Sciences, Uni-
versity of California, Riverside, announces a position available October 1, 1993. The position is an 11-month, academic career-track, Assistant Extension Specialist (70%) and Assistant Plant Physiologist (30%) appoint-
ment in the Agricultural Experiment Station. Applied and basic research will emphasize soil/water/atmosphere management in citrusculture. The appointee is expected to provide leadership, coordination, and subject matter knowledge through statewide research and education activities for the University's citrus industry. A Ph.D. degree in plant physiology or a closely related discipline is required. The position requires a broad knowledge of biology in general, in addition to one or more of the following areas: mineral nutrition/fertility management; irrigation management; root function and health; water and carbon dioxide exchange; tree crops. Skills in written and oral communication are essential. While the primary responsibility is to citrus, the appointee will serve as a resource for improving the soil, water and nutrition management practices for other subtropical fruit tree crops of the coastal and desert areas of southern California. Send letter of application, curriculum vitae, statement of objectives and qualifications, and arrange to have at least three confidential letters of refer-
ence sent to: Dr. R. T. Leonard, Chairman, Depart-
ment of Botany and Plant Sciences, University of California, Riverside, CA 92521-0124; Telephone: 909-787-4413; FAX: 909-787-4437. The Application deadline is July 30, 1993. The University of California is an Affirmative Action/Equal Opportunity Employer.

GENETIC EPIEDEMIOLOGIST

For cancer genetics research program. Must be able to take a leadership role in implementation of a registry of high-risk patients, and to facilitate multi-institutional collabor-
ation. Candidates should have postdoctoral experience in both epidemiology and human genetics. The position carries an appointment at Cornell University Medical College. Working conditions and stipend are attractive. Send resume to: Dr. F. C. Miller, Strong Cancer Prevention Center, 628 East 72nd Street, New York, NY 10021.

CONTRIBUTED RESEARCHER IN Virology/COMPUTATIONAL BIOLOGY

The Health Technology Assessment Program of ECRI, a nonprofit research and publish-
ing agency, seeks outstanding candidates for the following positions:

M.D. Epidemiologist

A clinically competent physician with formal training in epidemiology and basic analytical skills to join a multidisciplinary effort to critique the clinical literature and assess new health technologies.

Ph.D. Biostatistician

A doctoral-level statistician experienced in bio-
medical applications to assess the statistical valid-
ity and methodology designs of clinical studies and new health technologies.

Ph.D. Research Analysts

Doctoral-level life scientists with voracious reading ability to organize clinical literature and write epidemiologically objective critiques of new health technologies.

These appointments offer unusual opportuni-
ties to impact significantly on the cost and quality of healthcare, here and abroad. Possibilities to participate in grant-funded research activities are also available. Please send curriculum vitae and reference list to: Human Resources, ECRI, 5200 Butler Pike, Plymouth Meeting, PA 19462.
**Project Director**

Searle, a global leader in the research and development of pharmaceuticals, is seeking a Project Director to ensure the successful development of key biotechnology derived product opportunities.

Primary responsibility for this high level position is to successfully and expeditiously manage the development process for protein products through all stages of planning, development, approval and registration. Additional responsibilities include timely and accurate project tracking and reporting to Searle management.

This position requires a professional with 5-10 years of pharmaceutical industry experience, specifically in biotechnology development or drug research project management. Candidates must possess a PhD, MD or equivalent.

A competitive salary and an excellent benefits program extend the rewards of this challenging position. Submit confidential resume to: Searle, Human Resources, Dept. PB1, 4901 Searle Parkway, Skokie, IL 60077. An equal opportunity employer. M/F/DV.

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**Cardiovascular Disease**

COR Therapeutics, Inc. is a publicly-held biopharmaceutical company located in the San Francisco Bay Area. We specialize in the discovery and development of novel therapeutics for the treatment of various aspects of atherosclerosis-induced cardiovascular disease. COR is actively recruiting highly qualified scientists with proven track records to join our multidisciplinary research teams.

**Receptor Biology** - This position offers the opportunity to study the role of receptor tyrosine kinases in cardiovascular disease and to participate in an ongoing drug discovery program to identify and characterize growth factor receptor antagonists. A Ph.D. in an applicable field and a minimum of two years postdoctoral experience in tyrosine kinase/signal transduction research is required. Preference will be given to candidates with a strong background in protein purification and characterization. (Job Code R9-93)

**Organic/Medicinal Chemistry** - Medicinal Chemists are sought for our drug discovery efforts on receptor antagonists and protease inhibitors based on synthetic peptide leads. Successful candidates will have a Ph.D. in Chemistry and a minimum of two years applicable research experience working in a biotechnology or pharmaceutical company. (Job Code R5-93)

COR Therapeutics, Inc. offers competitive salaries, benefits and attractive equity positions to its employees combined with the challenge and opportunity to make significant research contributions. To apply, please send curriculum vitae to: COR Therapeutics, Inc., Human Resources, 256 East Grand Avenue, South San Francisco, CA 94080. Please reference job code in correspondence. COR is an equal opportunity employer.

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**Head of Peptide Chemistry**

Our success in the creation and screening of large combinatorial chemical libraries has created the need for a Head of Medicinal Chemistry. We seek an exceptional Ph.D. level scientist, with 5-10 years of industrial experience, who will lead a group engaged in the application of peptide chemistry to the drug discovery process. Experience in managing research, an ability to lead others, to productively interact in a multidisciplinary environment, demonstrated expertise in peptide chemistry, peptide analysis and characterization, and possession of a broad knowledge of the relationship of peptides to medicinal chemistry are essential qualities. (S/EG1)

**Peptide Chemists**

Two positions are immediately available for B.S./M.S. Peptide Chemists with 4+ years of industrial experience. These positions require broad experience in solid phase and solution phase synthesis, purification, and characterization of biologically active peptides. Additional useful experience includes knowledge of methodologies for maximizing hindered couplings and general organic chemistry expertise applied to the development of peptide synthetic methods. The appropriate candidates must also possess a background in NMR, mass spectrometry, HPLC, and other peptide related analytical tools. (S/EG2)

Affymax offers many of the benefits of a world class academic environment and the potential to develop new therapeutics. To apply send your resume with appropriate job code to: Affymax Research Institute, Human Resources Dept, 4001 Miranda Avenue, Palo Alto, CA 94304. EOE
ZENECA Pharmaceuticals Group (formerly ICI Pharmaceuticals Group), dedicated to the challenge of discovering and developing important new therapeutic agents, has openings in the CNS and Pulmonary Pharmacology drug discovery research groups at our suburban Wilmington, Delaware location.

CNS Pharmacology

NEUROPHYSIOLOGIST — We seek a Neurophysiologist to assist in the design and execution of pharmacological studies to identify drugs for central nervous system disorders. Proficiency in electrophysiological techniques (stereotaxic surgery, histology, extracellular single unit recording, iontophoreses, brain slice) desired. Knowledge of electronics and computer science preferred. BS/MS in Neurobiology with experience in Neurophysiology required.

Pulmonary Pharmacology

POSTDOCTORAL FELLOW — A 2-year postdoctoral position is currently available. Candidate will be involved in ongoing research concerning effects and mechanisms of effects of C-fiber activation in the airways and understanding their role in airways hyperresponsiveness: a phenomena which underpins asthma. Studies will also involve modulation of C-fiber responses by inflammatory cells and their products, including cytokines. PhD or equivalent in a Biological Science is required. Experience with isolated tissue preparations and measurement of physiological and/or pharmacological responses would be an attribute.

We offer competitive compensation, comprehensive flexible benefits, a unique investment plan, and the opportunity to join a team of scientists from a broad range of disciplines in an industrial pharmaceutical research environment.

Interested candidates should submit c.v. to: Melanie Lewis, ZENECA Pharmaceuticals Group, 1800 Concord Pike, Wilmington, DE 19897.

ZENECA Pharmaceuticals Group

ZENECA Pharmaceuticals/Stuart Pharmaceuticals Business Units of ZENECA Inc.

An Equal Opportunity Employer M/F.
FACULTY POSITION  
UNIVERSITY OF MASSACHUSETTS  
MEDICAL CENTER

Immediate opening for a senior tenure or junior tenure track faculty position in an interdepartmental Molecular Medicine Program. Rank will be commensurate with ability and experience. The laboratories for the Program are housed in a modern building containing 80,000 square feet of research space. A variety of core facilities as well as 300 and 500 MHz NMR spectrometers, R-axis II x-ray data collection, and an array of computational and molecular graphics facilities are available. The position will be highly competitive with regard to start-up funds, laboratory space, and salary.

The Program seeks an individual of outstanding research potential who is employing chemical approaches to study important biological problems. Areas of specific interest include, but not limited to, bioorganic chemistry, protein or nucleic acids chemistry, development of novel chemical probes, drug design and action, medicinal chemistry, drug-macromolecule interactions, protein-ligand interaction and macromolecule structure. Applicants should send a curriculum vitae, statement of research, and names of three references to: Dr. Roger J. Davis, Search Committee Chairman, Program in Molecular Medicine, University of Massachusetts Medical School, 373 Plantation Street, Worcester, MA 01605.

An Equal Opportunity/Affirmative Action Employer

ASSOCIATE VICE PRESIDENT FOR RESEARCH  
LOYOLA UNIVERSITY OF CHICAGO

Loyola University of Chicago invites applications or nominations for the position of Associate Vice President for Research. The Associate Vice President for Research will also serve as the Director of University Research Services. We seek candidates with an earned doctorate (M.D., Ph.D., etc.), outstanding academic credentials, a commitment to research, and a graduate school background. Applicants should have a demonstrated ability to develop and enhance research initiatives, and to develop and maintain partnerships with the University's diverse academic and research communities.

We are particularly interested in candidates who can contribute to the University's research strategy in the areas of health care and the life sciences. The selected candidate will help to establish a comprehensive research enterprise that includes the development of a strong research infrastructure, the establishment of a research funding mechanism, and the creation of a research administration office to support the research enterprise.

Please send your resume, a statement of research interest, a list of recent publications, and the names and addresses of three references to: 

Dr. John X. Tanenbaum, Jr., Chair
Associate Vice President for Research
Loyola University of Chicago

loyola@luc.edu

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The Canadian Immigration Department stipulates that Canadian residents will be considered in the first instance. However, all qualified professionals are urged to apply. Please send a current curriculum vitae, brief statement of future research interests and three letters of recommendation to: Amgen Institute, Attn: Professor T.W. Mak, Job Code OA-SC-DC-001, 500 Sherbourne Street, Toronto, Ontario, Canada M4X 1K9. We are an Equal Opportunity Employer.

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Salary Scale: IRE 13,402–IRE 32,608 per annum.

Applications will be made within the salary range IRE 13,402–IRE 18,773 per annum at a point to accord with qualifications and experience to date.

Application forms and further particulars relating to this appointment may be obtained from:

Establishment Officer
Staff Office
Trinity College
DUBLIN
TEL: 7021678/FAX: 6772169

The closing date for receipt of completed applications will be Friday, 11th June, 1993.

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