

Products & Materials

Cooling Block for Microcentrifuge Tubes

Micro-Chill is a compact, benchtop cooling unit designed for microcentrifuge tubes used in ligation, nick translation, transcription, and many other molecular biology procedures. The unit can reach temperatures as low as -4°C with temperature uniformity of $\pm 0.25^{\circ}\text{C}$ across the cooling block. Solid-state electronics eliminates the need for compressors or Freon gases. The instrument's Peltier thermoelectric devices achieve its low temperatures. Moving parts are reduced to one permanently lubricated fan. A digital display indicates the temperature of the block. Operating temperature is reached within 45 min after power is applied. Globe Scientific. Circle 522.

Microwave Sterilizers for Microbiological Media

Model MSS-500 is a microwave system that can prepare and sterilize microbiological media in less than 10 min. The instrument sterilizes media in a fraction of the time required by an autoclave. The instrument accommodates up to 12 pressure vessels. CEM Corp. Circle 525.

Microprotein Analyzer

The Ultrafast Microprotein Analyzer is a microbore high-performance liquid chromatography system designed for use by the analytical biotechnology scientist. The instrument is meant for specifically defined applications rather than general purpose use. Biotechnology applications of the instrument include real-time monitoring in process development, nanopreparative isolation of peptides and proteins at ultrasensitive concentrations, rapid monitoring of synthetic peptide purification, rapid methods development, trace-level peptide mapping, quantitation of trace-level product variants in final product, assessment of product

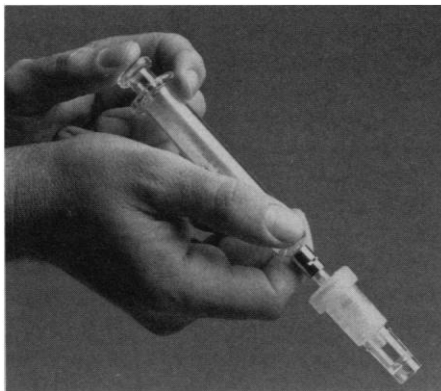
purity and stability, and rapid monitoring of protein refolding. The system includes a binary gradient microbore solvent delivery system; a ten-port automated sample injector; a thermally controlled mobile phase, column, and flow cell system; an ultraviolet-visible light detector; and a personal computer-based controller and data system. Michrom BioResources. Circle 535.

High- and Low-Temperature Chamber

A new benchtop temperature chamber provides a temperature range of -73° to $+204^{\circ}\text{C}$ for testing applications. The chamber includes an air-cooled cascade refrigeration system that uses environmentally safe HCFC-22 high-stage refrigerant and HCFC-13 low-stage refrigerant. Pressure switches protect the system by cycling the high-stage motor compressor during light refrigeration demand and by preventing chamber temperature from spiking. The chamber comes with microprocessor-based program control with up to eight profiles and six segments per profile. Blue M Electric. Circle 534.

Low-Volume Ultrafiltration Devices

Ultrafree-PF and Ultrafree-PFL Filter units are pressure-driven, self-contained, disposable filtration devices for processing aqueous biological fluids in the 0.2- to 0.3-ml volume range. Applications include concentration of macrosolutes larger than



the membrane's molecular weight cutoff and collection of ultrafiltrate to recover amino acids, sugars, metabolites, drugs, or other small molecules. The devices do not require a centrifuge for operation. A check valve in the cap maintains constant pressure on the fluid, allowing for unattended operation once it is pressurized by syringe. Millipore. Circle 530.

Cleavable Peptide Kit

Up to 192 different peptides can be synthesized with the Cleavable Peptide Kit. A novel linker system, stable in the mild synthesis conditions used, allows the peptides to be cleaved in aqueous solution at physiological pH. The peptides are cleaved in an ideal form for T cell epitope scanning, peptide analog studies, solution-phase assays, and preparation of peptide conjugates without the need for further purification. Cambridge Research Biochemicals. Circle 527.

Kit for Rapid Isolation of Messenger RNA

The mRNA Separator kit can be used for rapid isolation of mRNA from total RNA. The kit includes prepacked oligo(dT) spun columns, which minimize handling of RNA samples and speed washing and column elution. The kit allows for the isolation of mRNA in under 45 min and typically yields more than $40\text{ }\mu\text{g}$ of mRNA per gram of tissue. Clontech Laboratories. Circle 533.

Literature

ATCC Bacteria and Bacteriophages Catalogue, 1990 Update, is a 38-page listing of more than 450 new strains of bacteria and phage released since the publication of a 1989 catalog. American Type Culture Collection. Circle 550.

Lectins: Biology, Biochemistry, Clinical Biochemistry, Vol. 7, is a hard-cover collection of 67 papers presented during the Tenth International Lectin Meeting held in July 1988 in Prague, Czechoslovakia. This 462-page volume includes articles by more than 180 scientists. Sigma Chemical Co. Circle 553.

Lyph-Lock Freeze Dry Systems Catalog is a 52-page publication with complete information on a line of laboratory lyophilization equipment and accessories. The introductory section explains the freeze-drying process. Labconco. Circle 555.

Product Catalogue 1990/1991 contains more than 300 new products, including cytokine proteins, cytokine antibodies, designer genes, designer probes, ultra-haptens, oligonucleotide synthesis, gene synthesis, cytokine enzyme-linked immunosorbent assays, cytokine receptor reagents, and molecular biology products. British Bio-technology Ltd. Circle 557.

The Waste Management Manual for Laboratory Personnel is a resource for laboratory workers concerned about the proper disposal of wastes. American Chemical Society. Circle 558.

Newly offered instrumentation, apparatus, and laboratory materials of interest to researchers in all disciplines in academic, industrial, and government organizations are featured in this space. Emphasis is given to purpose, chief characteristics, and availability of products and materials. Endorsement by *Science* or AAAS is not implied. Additional information may be obtained from the manufacturers or suppliers named by circling the appropriate number on the Readers' Service Card and placing it in a mailbox. Postage is free.

Personnel Placement

SCIENCE publishes each Friday, except the last Friday of the year, and is mailed on issue date. Personnel advertising is accepted only with the understanding that the advertiser does not discriminate among applicants on the basis of race, sex, religion, age, color, national origin, handicap, or sexual preference. **SCIENCE** reserves the right, in its discretion, to decline to publish advertisements submitted to it.

LINE CLASSIFIED ADVERTISEMENTS

DEADLINE: Thursday, 10 a.m., 2 weeks prior to issue date. Advertising is accepted only in writing.

POLICIES: All classified ads will be edited and typeset according to **SCIENCE** style guidelines. NO ABBREVIATIONS. Any deadline for applications stated in ad must be at least 2 weeks after date of publication.

CLASSIFICATION: **SCIENCE** publishes line classified ads under the following headings: **Positions Open, Employment Agencies, Situations Wanted, Courses and Training, Meetings, Announcements, and Marketplace.** Advertisers should specify classification desired; however, **SCIENCE** reserves the right to decline classification requests which it believes may be misleading to readers.

RATE: \$41 per line, \$410 minimum, per week. One line equals 52 characters and spaces; centered headings equal 32 characters and spaces per line. No charge for use of blind box number. No agency commission for ads less than 40 lines. To ESTIMATE ad cost, structure ad copy on a 52-character line; include any desired heading on 32-character lines. Each line of heading, one line of white space between heading and body of ad, and all partial lines (including centered reply information, if desired) are counted as full lines. Multiply total number of lines x \$41 = approximate cost of ad, per week. (This is an approximate cost ONLY. Allow for variation between estimated lines and actual typeset lines and resulting final cost. Purchase orders must allow for some degree of flexibility and/or adjustment. **SCIENCE** cannot provide proofs of typeset ads.)

CREDIT CARDS: **SCIENCE** accepts MasterCard and VISA.

PREPAYMENT DISCOUNT: A 3% cash discount is granted to all prepaid line ads. Prepayment in U.S. dollars by checks drawn on U.S. banks is required for all foreign ads.

BOXES AND LOGOS: Any 1-column line classified ad can be boxed and/or published with logo. No extra production charge for use of box or logo. For boxed ads, one line equals 48 characters and spaces; two additional lines will be added to cost of ad to allow for top and bottom rules. Logos are billed according to number of lines needed to accommodate logo.

SITUATIONS WANTED ADS: As a service to AAAS members in good standing, **SCIENCE** offers free placement of Situations Wanted ads for individuals seeking full-time or part-time employment. A blind box may be used. Ads must be submitted in writing with text of 20 words or less, not including address or box number, and are limited to two insertions per member in each calendar year. Please enclose **SCIENCE** mailing label including AAAS membership number when submitting ad.

CANCELLATIONS: Deadline for cancellations is 10 a.m. Tuesday, 10 days prior to issue date.

Address ad copy or requests for information to:

SCIENCE Classified Advertising
1333 H Street, NW, Room 940
Washington, DC 20005
Telephone: 202-326-6555
FAX: 202-682-0816

DISPLAY PERSONNEL ADVERTISEMENTS

For rates, deadlines, and information about fractional display ads (1/6 page and larger) and all Marketplace listings of available products and services, contact:

Scherago Associates, Inc.
1515 Broadway
New York, NY 10036
Telephone: 212-730-1050
FAX: 212-382-3725

RESPONSES TO EMPLOYMENT ADS

Applicants should read Positions Open ads carefully in order to submit all required material when responding, and should especially check for any stated deadline for receipt of applications. **SCIENCE** encourages applicants for positions to investigate employment laws, non-discrimination policies, visa requirements, and cultural differences in the country advertising for employees.

To reply to a blind box ad, address correspondence to:

Box (give number)
SCIENCE Classified Advertising
1333 H Street, NW, Room 940
Washington, DC 20005

POSITIONS OPEN

ASSISTANT PROFESSORS. The Department of Physiology invites applications for two assistant professor positions (tenure track). Ph.D. degree or equivalent with 3 years of postdoctoral training. Candidates who plan to develop an independent research program in cellular, molecular, or biophysical aspects of motility-contraction or membrane biology are especially encouraged to apply. However, excellent candidates in all areas of cell physiology will be given serious consideration. Applicants should submit curriculum vitae and a brief statement of research plans and have three letters of reference sent to: **James T. Stull, Ph.D., Department of Physiology, The University of Texas Southwestern Medical Center at Dallas, 5323 Harry Hines Boulevard, Dallas, TX 75235-9040. An Affirmative Action/Equal Opportunity Employer.**

The Department of Biochemistry, Duke University Medical Center, invites applications for the position of **ASSISTANT PROFESSOR** (tenure track). Special preference will be given to those expert in x-ray crystallographic analysis of biological macromolecules. The person selected is expected to establish a strong independent research program, advise Ph.D. students in thesis research, and teach both medical and graduate students. Send résumé, summary of research interest, and three letters of reference to: **Dr. Robert L. Hill, Duke University Medical Center, Durham, NC 27710. Duke University is an Equal Opportunity/Affirmative Action Employer.** The closing date for receipt of applications is 15 January 1991.

POPULATION GENETICIST

A tenure-track **ASSISTANT PROFESSORSHIP** is available in the Department of Biology, Utah State University (USU). Appointment is 50% research, 50% teaching. Successful applicant is expected to develop an independent research program studying natural populations, preferably using molecular techniques. Position is partially funded by the interdepartmental Ecology Center. Teaching responsibilities include general genetics and population genetics. Ph.D. required; postdoctoral experience preferred. Send curriculum vitae, statement of interest, and have three letters of reference sent to: **Dr. W. A. Brindley, Department of Biology, Utah State University, Logan, UT 84322-5305.** Review of application will begin on 10 December 1990. **USU is an Affirmative Action/Equal Opportunity Employer.**

ASSISTANT PROFESSOR VERTEBRATE BIOLOGY

Tenure-track position available starting September 1991. Hollins College, a private 4-year liberal arts college for women, seeks a vertebrate biologist to teach undergraduate courses in general biology, comparative anatomy, embryology, and histology. Experience in scanning EM is highly desirable. Accepted candidate is expected to develop an active research program involving undergraduate students. Ph.D. required. Curriculum vitae, statement of teaching and research interests and experience, copies of significant publications, and three letters of recommendation should be sent to: **Dr. Harriet Gray, Chair, Department of Biology, Hollins College, P.O. Box 9616, Roanoke, VA 24020** by 1 January 1991.

Hollins College is an Affirmative Action/Equal Opportunity Employer.

COLBY COLLEGE

The Department of Geology at Colby College seeks to fill a tenure-track position in groundwater hydrology and environmental geology at the **ASSISTANT PROFESSOR** level, beginning 1 September 1991. Qualified women candidates will also be considered for appointment as **Clare Boothe Luce Assistant Professor of Geology**. Courses to be taught will include groundwater hydrology, environmental geology, structural geology, a course in the candidate's subdiscipline, and alternating duties in the introductory physical geology course. Average teaching load of four to five courses per year, including appropriate laboratories and the January term. Applicants should have completed all Ph.D. requirements and expect to have degree in hand by 1 September 1991. Please submit letter of application, résumé, undergraduate and graduate transcripts, and names of three references by 15 January 1991 to: **Associate Professor Robert E. Nelson, Chair, Department of Geology, Colby College, Waterville, ME 04901-4799. Colby is an Affirmative Action/Equal Opportunity Employer and encourages applications from women and minorities.**

POSITIONS OPEN

ASSISTANT PROFESSOR CARDIOVASCULAR/BIOCHEMICAL PHARMACOLOGY

Applications are invited for a tenure-track assistant professor position in the Department of Pharmacology at the University of Alabama at Birmingham (UAB). Applicants should have a Ph.D. in relevant area with two or more years of postdoctoral training. Interest and expertise in endothelial cell biology and functions in vivo and in vitro is desired. The successful candidate will be expected to develop an independent research program with outside funding. Send curriculum vitae and three letters of reference to: **Dr. Robert B. Diasio, Professor and Chairman, Department of Pharmacology, UAB Station, Box 402, Birmingham, AL 35294.**

UAB is an Equal Opportunity/Affirmative Action Employer.

Concordia University Biology Department is seeking qualified applicants for a tenure-track position at the **ASSISTANT PROFESSOR** rank for a molecular biologist. Preference will be given to individuals working with microbial systems (either prokaryote or eukaryote). Applicants will be expected to have a Ph.D. plus some postdoctoral experience and to show that they are capable of pursuing an active, independent research program.

Duties within the department will include the teaching of graduate and undergraduate courses in molecular biology and the supervision of graduate students. *In concordance with Canadian immigration policy, this advertisement is directed at Canadian citizens and permanent residents. Concordia University is committed to Employment Equity.*

Applications should be sent by 16 November 1990 along with full curriculum vitae, a statement of your research plans, and the names of three referees who can comment on both research and teaching potential to:

**Dr. P. Widden, Chair
Department of Biology
Concordia University
1455 de Maisonneuve Boulevard, West
Montreal, Quebec, Canada H3G 1M8**

ASSISTANT PROFESSOR MATERNAL/FETAL MEDICINE

The University of Alabama at Birmingham, Department of Obstetrics and Gynecology, is seeking to fill a faculty position. Candidate must be Board-eligible or Board-certified in obstetrics and gynecology. Individual will work with 25 Ob/Gyn residents and three fellows providing appropriate care to pregnant women throughout the state of Alabama who have or are at risk for developing complications of pregnancy. Faculty member will perform basic and clinical obstetric research.

Applicant should have completed approved maternal/fetal medicine fellowship program and have proven basic science research expertise, experience with microvascular fluid exchange, and experience with various biomechanical means to assess the maternal/fetal status and/or predict subsequent outcomes such as pre-eclampsia.

Interested persons please apply by 31 January 1991 to: **Brent Bodily, Executive Administrator, Department of Obstetrics and Gynecology, UAB Station, Birmingham, AL 35294. An Equal Opportunity/Affirmative Action Employer.**

EUKARYOTIC MOLECULAR BIOLOGIST

The Department of Biological Sciences, Southern Methodist University (SMU), has expanded its facilities and faculty in molecular biology. We now invite applications for a tenure-track position at the **ASSISTANT PROFESSOR** level for an individual using the techniques of molecular biology to examine physiological processes. The area of study is flexible and individuals using invertebrate model systems are especially urged to apply. The successful candidate is expected to develop an independent research program that will attract extramural funding and to participate in undergraduate and graduate teaching programs. The main teaching responsibility will be a traditional undergraduate physiology course emphasizing vertebrate systems. Newly remodeled space, core facilities, and an attractive start-up package are available. Applications including curriculum vitae, descriptions of research interests, plans for future research, and names of three references should be sent by 1 January 1991 to: **Chair, Faculty Search Committee, Department of Biological Sciences, Southern Methodist University, Dallas, TX 75275. SMU is an Equal Opportunity/Affirmative Action/Title IX Employer.**

POSITIONS OPEN

ASSISTANT PROFESSOR IN SYSTEMS SCIENCE

The Systems Science Department, State University of New York (SUNY) at Binghamton, invites applications for a tenure-track faculty position from candidates in the systems science field with diverse teaching capabilities and research interests. The department has offered the M.S. and Ph.D. programs with specialization in systems science. Applicants should send curriculum vitae, a statement of research interests, and should arrange that three letters of recommendation be sent to: **Professor George J. Klir, Chair, Systems Science Department, SUNY, Binghamton, NY 13902-6000.**

The State University of New York at Binghamton is strongly committed to Affirmative Action. We offer access to services and recruit students and employees without regard to race, color, sex, religion, age, disability, marital status, sexual orientation, or national origin.

Ohio State University, Department of Biochemistry, invites applications for a 9-month, tenure-track faculty position at the level of **ASSISTANT PROFESSOR**, with the possibility for an exceptionally qualified individual of an appointment at a more senior level, available 1 October 1991 or later. We seek an individual with a strong background in molecular biology and in biochemistry and are particularly interested in candidates with expertise in proteins and protein engineering. Candidates should have a Ph.D., postdoctoral experience, and a strong record of research productivity. Please submit a résumé, a concise statement of research interests, and the names and addresses of three references to: **Faculty Search Committee, Department of Biochemistry, Ohio State University, 484 West 12th Avenue, Columbus, OH 43210. Equal Opportunity/Affirmative Action Employer.**

The Department of Neurobiology at Stanford University School of Medicine invites applications from qualified individuals for the position of **ASSISTANT PROFESSOR OF NEUROBIOLOGY** commencing 1 September 1991. The successful candidate will have research experience in cellular and molecular neurobiology and will be expected to maintain an independent research program of high quality. Preference will be given to those individuals who have significant research accomplishments. *Stanford University is committed to increasing representation of women and members of minority groups on its faculty and particularly encourages applications from such candidates.* Applications including the names of three references should be addressed to: **Chairman, Search Committee, Department of Neurobiology, Stanford University School of Medicine, Stanford, CA 94305-5401.**

The Department of Psychiatry, University of California, Los Angeles (UCLA), School of Medicine has an opening for an **ASSISTANT PROFESSOR** (in Residence series) to develop basic science research programs of relevance to mental illness and drug abuse. We are seeking a neuropharmacologist with a proven research record in the field of biogenic amine and peptide neurotransmission in the basal ganglia and limbic systems using in vivo approaches. Specifically, applicants with research interests in the regulation of opioid peptide systems and dopamine/neuropeptide coexistence are sought. Candidates should have knowledge and experience of both in vivo voltammetry and microdialysis and in particular must possess expertise in the measurement of neuropeptide release by in vivo dialysis. Knowledge of associated analytical neurochemistry methodology is also required including microbore HPLC of biogenic amines and sensitive neuropeptide radioimmunoassay and candidates should also have a basic background in biochemical pharmacology. Some experience with electrophysiological unit recording techniques would also be appropriate. The incumbent will be expected to establish independent research programs but must also have the ability to interact collaboratively. A proven record of securing external funds is essential. Teaching responsibilities will include contributing to a course on methods in neurobiology for neuroscience graduate students. Candidates must have a Ph.D. in pharmacology together with at least 3 years of relevant postdoctoral experience. Salary: \$54,000 per annum. Send curriculum vitae and the names of three references to: **Chairman, Department of Psychiatry, UCLA School of Medicine, 760 Westwood Plaza, Los Angeles, CA 90024. Equal Opportunity Employer.**

POSITIONS OPEN

DEVELOPMENTAL BIOLOGY EXPANDED SEARCH

The Department of Biological Sciences at Dartmouth has expanded its search and invites applications for two tenure-track positions at the **ASSISTANT PROFESSOR** level in the area of developmental biology. Both positions require a Ph.D. or equivalent and significant postdoctoral experience.

• **DEVELOPMENTAL GENETICS.** This position, advertised previously, will be filled by an investigator who uses a molecular genetic approach to a plant or animal system. Qualified applicants working with single cell organisms will also be considered.

• **DEVELOPMENTAL BIOLOGY.** This position will be filled by an investigator working on some aspect of animal development, including gametogenesis. Individuals with expertise in the area of cell biology, microscopy, immunology, molecular biology, or neurobiology are encouraged to apply.

Both positions entail participating in teaching at the graduate and undergraduate levels and establishing a vigorous and externally funded research program. Generous set-up funds are available. Applicants should send curriculum vitae, containing a statement of future research and teaching interests, and have three letters of reference sent directly to the search committee. Please specify for which position(s) you are applying. Application review will begin on 1 December 1990. *Dartmouth is an Equal Opportunity/Affirmative Action Employer.* Address: **Chair, Developmental Biology Search Committee, Department of Biological Sciences, Dartmouth College, Hanover, NH 03755. FAX: 603-646-1347.**

ASSISTANT PROFESSOR. Molecular biology, tenure-track position, Ph.D. required. Teaching duties and opportunity for collaboration with local genetics research laboratory. Send résumé and three letters of recommendation to: **Dr. Jerry Wilson, Chair, Division of Biological and Physical Sciences, Lander College, Greenwood, SC 29649.** A 4-year, state-supported institution. *Affirmative Action/Equal Opportunity Employer.*

Colby College invites applications for a 1-year, sabbatical leave replacement position (1991-92) as **ASSISTANT PROFESSOR OF BIOLOGY.** Candidates should have a Ph.D., experience with and a strong commitment to teaching undergraduates, broad training in the biological sciences, and special interests and training in genetics, animal behavior, and animal biology. Familiarity with liberal arts colleges and/or postdoctoral training are desirable. Responsibilities will include teaching an upper-level course in genetics and one in animal behavior, and a segment of our introductory biology course that deals with animal biology. Submit letter of application, statement of teaching and research interests, curriculum vitae, reprints of publications, undergraduate and graduate transcripts, and three letters from individuals familiar with the applicant's teaching and/or research to: **Professor Arthur K. Champlin, Chair, Department of Biology, Colby College, Waterville, ME 04901.** Applications should be complete by 17 December 1990. *Colby College is an Affirmative Action/Equal Opportunity Employer and strongly encourages applications from women and minorities.*

Two ASSISTANT PROFESSORS. The Department of Biology at Georgia Southern University is seeking to fill two tenure-track positions, one in cell biology/physiology and one in immunology/microbiology for fall 1991. Preference will be given to applicants qualified to teach at least two of the following: cell biology, human anatomy and physiology, animal physiology, or microbiology. Individuals hired will also be expected to participate in lower level courses in biology, zoology, or botany. Ph.D. and a commitment to excellence in teaching and research required. Postdoctoral experience desirable. Salary dependent upon qualifications. Send letter of application indicating position desired, curriculum vitae, brief statement of personal teaching philosophy, and unofficial copies of all college transcripts to: **Dr. John Parrish, Head, Department of Biology, Georgia Southern University, Statesboro, GA 30460-8042.** Deadline: 2 January 1991 for receipt of all materials. *The names of applicants and nominees, résumés, and other general nonrelevant information are subject to public inspection under the Georgia Open Records Act. Georgia Southern University is an Affirmative Action/Equal Opportunity Institution.*

POSITIONS OPEN

ASSISTANT PROFESSOR OF PHARMACEUTICAL SCIENCES. The Washington State University (WSU) College of Pharmacy has available an annual tenure-track appointment at the assistant professor level, effective 1 August 1991. A professional degree in pharmacy is preferred and a Ph.D. in pharmaceuticals or a related discipline is required. Postdoctoral experience is desirable. The candidate should have a strong background in physical pharmacy, biopharmaceutics, or pharmacokinetics. The position will involve teaching pharmaceuticals to professional pharmacy students and teaching and directing graduate students in the pharmacology/toxicology graduate program. Development of a vigorous independent research program is expected. Salary will depend on the qualifications and experience of the candidate. Applicants should provide curriculum vitae, the names and addresses of three references, and a statement of research interests and professional goals. Applications will be received until 2 January 1991 or until the position is filled. Contact: **Dr. Richard T. Okita, Ph.D., College of Pharmacy, Washington State University, Pullman, WA 99164-6510. Telephone: 509-335-4750.** *WSU is an Equal Opportunity/Affirmative Action Educator and Employer. Protected group members are encouraged to apply.*

ASSISTANT PROFESSOR NEUROPHYSIOLOGY

The Department of Physiology at the University of Minnesota invites applicants for a tenure-track position at the assistant professor level in vertebrate systems neurophysiology, with emphasis on motor systems and/or sensory motor integration. Applicants must have a Ph.D., M.D. or equivalent, and the ability to conduct independent research leading to extramural funding. Two or more years of postdoctoral training is desirable. Preference will be given to candidates in the areas of physiology, behavior, and psychophysics who can interrelate with ongoing research programs. The applicant will also be expected to participate in teaching and graduate education in the department.

The last date for receipt of applications is 31 January 1991. Send curriculum vitae and description of research program to: **Dr. Richard E. Poppele, Department of Physiology, 6-255 Millard Hall, 435 Delaware Street S.E., University of Minnesota, Minneapolis, MN 55455.** *The University of Minnesota is an Equal Opportunity Educator and Employer and specifically invites and encourages applications from women and minorities.*

MICROBIOLOGIST

The Biology Department at Seattle University seeks applicants for a full-time, tenure-track position at the **ASSISTANT PROFESSOR** level, to begin September 1991. Qualifications include a Ph.D. in a biological science with expertise in microbiology. Candidates should have an interest and ability in undergraduate teaching. Teaching responsibilities include general microbiology and general biology, as well as upper division courses in the individual's area of expertise, preferably immunology, pathogenic microbiology, and/or parasitology. While the emphasis is on teaching, the department tries to involve its majors in original research.

Seattle University is a metropolitan, Jesuit, teaching university serving approximately 3000 undergraduates, of whom more than 50% are women and more than 25% are non-Caucasian. *The university strives to develop a campus community in which all faculty, staff, and students, regardless of color or gender, feel welcome, supported, and valued. A diverse faculty is needed to assist us in making this commitment a reality.*

Applicants should send résumés to: **Dr. Daniel B. Matlock, Chairperson, Department of Biology, Seattle University, Seattle, WA 98122.**

ASSISTANT/ASSOCIATE PROFESSOR

A tenure-track position in Microbiology and Immunology Department. Demonstrated research experience in applying molecular biology approaches to problems in pathogenic bacteriology. Applicants with supported research will receive primary consideration. Successful candidate will participate in medical and graduate teaching. Starting 1 July 1991. Send curriculum vitae, statement of research and teaching goals, and names of three references to: **Dr. Lewis Afroniti, Microbiology and Immunology Department, George Washington University (GWU) Medical Center, Washington, DC 20037.** *GWU is an Equal Opportunity/Affirmative Action Employer.*



PROGRAM DIRECTOR

The Duke Comprehensive Cancer Center is seeking a Program Director for Cancer Pharmacology.

The successful candidate should hold an MD or PhD degree and have demonstrated expertise in the pharmacology of antineoplastic agents. Such an individual would establish and develop a program in the pharmacology of antineoplastics in conjunction with the program in experimental therapeutics. The level of faculty appointment will be commensurate with the experience of the individual.

Please send CV to: **Robert C. Bast, Jr., MD, Director, Duke Comprehensive Cancer Center, Box 3814, Duke University Medical Center, Durham, NC 27710, or call (919) 684-3377.**

Duke University Medical Center

Duke University is an Equal Opportunity/
Affirmative Action Employer.

Biochemist Molecular Biologist

LYNATECH is a dynamic, growing company in the field of novel therapeutic approaches for immunosuppression and organ transplantation, located in the Centre of Transplantation of Nantes, France. Current openings exist as follows:

Protein Biochemist to characterize and purify recombinant proteins. Knowledge of peptide chemistry is desirable.

Molecular biologist to develop and optimize expression systems for recombinant proteins. Experience with eukaryotic cells, bioreactors and large scale expression is a plus.

The successful candidates must have a Ph.D. plus at least 2 years post-doctoral experience or 5+ years experience. A substantial record of productive research is required.

This is a unique opportunity for **outstanding** individuals to grow quickly with a young company. The direct environment of the company includes the University of Nantes, and INSERM U.211. Lynatech offers an excellent compensation and benefits package. Please send a c.v. including references, in confidence, to: **M.V. Hiance, Lynatech, Atlanpole CP 3002, 44087 Nantes Cedex 03, France. FAX: (33) 40 25 10 88.**

Department of Health and Human Services
Public Health Service • National Institutes of Health

DIRECTOR

NATIONAL INSTITUTE OF ENVIRONMENTAL HEALTH SCIENCES

Opening Date: October 15, 1990 Closing Date: November 30, 1990

(All Applications must be postmarked by the closing date.)

The National Institutes of Health (NIH) invites nominations and applications for the position of Director, National Institute of Environmental Health Sciences (NIEHS). The Director is responsible for management and direction of one of the preeminent centers for toxicology research in the world, focused on carrying out its research mission: to seek the cause of and ways to prevent environmentally-associated health problems. Programs encompass intramural laboratory research and extramural (contracts and grants) activities on the environmental health sciences. The Director is responsible for the coordination and direction of all programs and activities in the Institute and serves as principal advisor to the Director, NIH, on environmental health-related matters.

The Director, NIEHS also serves in a dual role as the Director, National Toxicology Program (NTP). The NTP is a coordinated effort among DHHS agencies to characterize the toxicity of chemicals.

This is a Civil Service position in the Senior Executive Service (SES), with a base salary from the ES-1 to the ES-5 pay level (currently \$71,200 to \$81,400 per year) depending on qualifications. SES members are eligible for various bonuses and awards, and physicians are eligible for a comparability allowance of up to \$20,000 per year, although total compensation cannot exceed the rate of Executive Level I (currently \$107,300 per year). (Alternatively, applicants may be eligible for appointment in the Commissioned Corps of the U.S. Public Health Service.) The SES individual selected, if not presently in the Senior Executive Service, must serve a one-year probationary period.

For more information, contact Mr. Alvin L. Wade, Jr. at (919) 541-1993. The following forms are *required*: Application for Federal Employment (SF-171) accompanied by a current curriculum vitae and bibliography. These forms may be submitted to:

**Mr. Alvin L. Wade, Jr.
National Institute of Environmental
Health Sciences
Personnel Office (1-01)
P.O. Box 12233**

Research Triangle Park, North Carolina 27709

All applicants tentatively selected for this position will be required to submit to urinalysis prior to appointment to screen for illegal drug use.

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

POSITIONS OPEN

SEARCH REOPENED BIOLOGY/SCIENCE EDUCATION

The College of Arts and Sciences and the School of Education at the University of Missouri-Kansas City seek applicants with a strong interest and experience in science education for a 9-month tenure-track position in biology. The position is at the **ASSISTANT PROFESSOR** level with responsibilities to the Department of Biology (55%) and the School of Education (45%). Major responsibilities include teaching undergraduate and/or graduate courses in biology and methods courses in natural science and the supervision of secondary student teachers in the School of Education. It is also expected that the candidate conduct research, serve on graduate student committees, and provide service to the campus and community to further the university's mission of teaching, research, and service. Ph.D. in biology or science education required. Research and scientific publications may be in biology, science education, or in both areas. K-12 teaching experience is preferred.

Applicants should include a statement of teaching and research goals, curriculum vitae, reprints of key publications, and graduate transcripts and arrange for the transmission of three current letters of recommendation to:

**Dr. Edward Underwood, Co-Chair
Screening Committee for
Assistant Professor: Biology/Science Education
School of Education
University of Missouri-Kansas City
5100 Rockhill Road
Kansas City, MO 64110-2499**

Review of applications will begin 1 January 1991 and will continue until the position is filled. *The University of Missouri-Kansas City is an Equal Opportunity Employer which encourages applications from minorities and women.*

An **ASSISTANT/ASSOCIATE PROFESSOR** tenure-track position is available in the Department of Physiology and Pharmacology. Individuals with research expertise at the cellular or molecular level will be given preference. Research projects that complement the department's ongoing projects in enzymology/metabolism, endocrinology, neuroscience, toxicology, or pharmacology are of greatest interest. Outstanding applicants in all areas will be considered.

The Ph.D. is required and postdoctoral experience and/or the D.V.M. degree is desirable. The successful candidate is expected to develop an externally funded research program, supervise graduate students, and participate in the teaching mission of the department. Applicants should submit curriculum vitae and the names of three references to: **Dr. Carl H. Clark, Department of Physiology and Pharmacology, College of Veterinary Medicine, Auburn University, AL 36849.**

Auburn University is an Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.

VETERINARY ANATOMIST

The Department of Veterinary and Comparative Anatomy, Pharmacology, and Physiology, College of Veterinary Medicine, Washington State University, invites applications or nominations for a tenure-track position at the **ASSISTANT/ASSOCIATE PROFESSOR** level. The candidate will be expected to participate in teaching veterinary gross anatomy and/or microscopic anatomy to D.V.M. and undergraduate students and to develop research and graduate programs in the area of his/her expertise. Areas of research in the department include endocrinology, locomotion, neurobiology, teratology, toxicology, and cellular, cardiovascular, and exercise physiology. Qualifications: D.V.M./Ph.D. or Ph.D.; experience in teaching veterinary gross anatomy and/or microscopic anatomy is highly desirable; ability to conduct independent research is required. Rank and salary will be commensurate with qualifications. Starting date is 1 July 1991 or earlier.

Written applications must include curriculum vitae and the names, addresses, and telephone numbers of three references. Applications, nominations, or inquiries should be sent to: **Dr. C. S. Zamora, Department of Veterinary and Comparative Anatomy, Pharmacology, and Physiology, College of Veterinary Medicine, Washington State University, Pullman, WA 99164-6520.** Review of applications will begin 2 January 1991 and will continue until the position is filled.

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

POSITIONS OPEN

ASSISTANT PROFESSOR, PHARMACOLOGY OR TOXICOLOGY. The Department of Medical Pharmacology and Toxicology at Texas A&M University College of Medicine is expanding its faculty. Special attention will be given to candidates with research interests and expertise in ocular pharmacology, cardiovascular pharmacology, or toxicology, although qualified applicants with other interests and expertise will certainly be considered. Appointment will be at the assistant professor level in a tenure-track position. Candidates should hold a Ph.D. and/or M.D. degree and have a minimum of 2 years of postdoctoral experience. All faculty are expected to establish a strong research program and participate in the teaching of medical and graduate students. Send curriculum vitae, statement of research interests and career goals, no more than three representative publications, and names of at least three references to: **Dr. Kelly Hester, Chair, Faculty Search Committee, Department of Medical Pharmacology and Toxicology, College of Medicine, Texas A&M University, College Station, TX 77843-1114.** Deadline for receipt of applications is 15 January 1991. *Texas A&M University is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are encouraged to apply.*

ASSISTANT/ASSOCIATE PROFESSOR. Tenure-track faculty position is available for a virologist. Applicants must have a Ph.D. and/or M.D. with relevant postdoctoral experience. Individuals with research interests in the molecular basis of pathogenesis and expertise in molecular virology will be given preference. Candidates must have the ability to teach medical and graduate students, as well as supervise dissertation research for graduate students. Applicants at the assistant professor level will be judged on their potential to develop a vigorous independent research program which can attract extramural support. Applicants to be considered for associate professor must have a significant publication record and extramural funding. An attractive start-up package will be available. *Minority and female candidates are encouraged to apply.* Submit curriculum vitae, statement of research interests, and a list of three references to: **Dr. Paul C. Montgomery, Professor and Chair, Department of Immunology and Microbiology, Wayne State University School of Medicine, 540 East Canfield Avenue, Detroit, MI 48201.** *An Equal Opportunity/Affirmative Action Employer.*

University of Washington: **ASSISTANT/ASSOCIATE PROFESSOR OF MARINE AFFAIRS.** School of Marine Affairs (formerly Institute for Marine Studies), College of Ocean and Fishery Sciences. A tenure-track position available September 1991. Teaching and research concerned with the application of scientific information in the resolution of marine environmental policy problems. Ph.D. or equivalent degree in one of the natural sciences which relate to the marine environment, with experience in teaching and research, and in dealing with questions of environmental policy. Candidates with degrees in other fields but with substantial background in natural science may also be considered.

Send curriculum vitae, statement of research interests, reprints of recent publications, and names and addresses of four references to: **Search Committee Chair, School of Marine Affairs, HF-05, University of Washington, Seattle, WA 98195, FAX: 206-543-1417.** A brief statement on the applicant's views of the most important current problems of marine environmental policy should also be included. Closing date: 1 December 1990. *Affirmative Action/Equal Opportunity Employer.*

IMMUNOLOGIST, Ph.D.

Department of Surgery, University of California, San Diego (UCSD). Available 1 July 1991 to develop immunology laboratory in support of active clinical transplantation service. Emphasis on novel approaches to immunosuppression and immunologic monitoring. Ample opportunity will exist for developing basic research program. Opportunity to teach fellows and postgraduate students. Applicant should (i) have established reputation and track record of productivity, (ii) have experience and interest in developing cooperative clinical/basic science ventures, and (iii) be qualified for appointment at the **ASSOCIATE PROFESSOR** level. Closing date is 15 January 1991. Salary per published UC scale. Please send applications with curriculum vitae, selected publications, and the names of three references to: **N. A. Halasz, M.D., UCSD Medical Center, H-810-A, 225 Dickinson Street, San Diego, CA 92103.** *Affirmative Action/Equal Opportunity Employer.*

BIOCHEMIST/ MOLECULAR BIOLOGIST

The Department of Immunology and Inflammation has openings in a multidisciplinary group studying receptor biology with particular focus on structure-function relationships and on the mechanisms of signal transduction. Qualified applicants should be highly motivated and have an M.S./B.S. in Biology, Biochemistry or Molecular Biology with substantial laboratory experience. Preference will be given to candidates with a strong background in biochemistry with emphasis on protein purification, or in molecular biology with emphasis on gene cloning.

Merck Sharp & Dohme Research Laboratories is located in Rahway, New Jersey, approximately 25 miles from New York City. Our salaries, benefits and growth potential are excellent. For consideration, send your resume and the names of three references to: **Human Resources Manager, Attn: Ad #48, P.O. Box 2000, Rahway, NJ 07065.** An equal opportunity/affirmative action employer.



Merck & Co., Inc.

UNIVERSITY OF UPPSALA, SWEDEN THE MEDICAL FACULTY Applications are invited for a PROFESSORSHIP IN MOLECULAR CELL BIOLOGY

Ref nr 8799/90

Subject area for the chair in Molecular Cell Biology:

This is a new chair in molecular cell biology at the faculty of medicine. The successful applicant will have a Ph.D., perhaps in combination with an M.D. and should be active in international front-line research in molecular cell biology of higher eukaryotes of relevance for human disease. He/she will participate in undergraduate teaching of medical students and training of Ph.D. students. Excellent laboratory facilities are available and there are extensive opportunities to collaborate with other research groups at the Biomedical Center of Uppsala which is one of the largest biomedical research facilities in Scandinavia.

The application should be directed to The Government of Sweden under the address: The Registrar, Uppsala University, Box 256, S-751 05 Uppsala, Sweden, no later than November 16, 1990.

The applicant should submit a curriculum vitae (duly signed and witnessed), a short written account of his/her scientific and pedagogic activities, certificates and such other documents as to which the applicant wishes to refer, and a list of scientific publications. All in four copies. It should be clear from the written account which results and other scientific achievements the applicant considers should be primary observed in the matter.

The applicant should also indicate and send in those 20 publications which he/she considers most adequate in four copies and the rest of the publications referred to in one copy. Copies of publications should be sent no later than November 29, 1990.

For further information, please contact Prof. Hans R. Ulfendahl, Dean of the Medical Faculty. Telephone 46-18-174182 or Telefax 46-18-55 35 41.

EMORY UNIVERSITY

Vice President for Arts and Sciences and Dean of Emory College

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

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

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

Applicants should submit a letter detailing their interest and pertinent experience, including some statement of views concerning educational leadership, together with a current curriculum vitae and the names of several references. Applications and letters of nominations should be sent to Professor Frank Manley, Chair, College Dean Search Committee, Office of the Provost, Emory University, 404 Administration Building, Atlanta, GA 30322. The search committee will begin reviewing dossiers November 1 with a view to making the decision by mid-March.

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

Postdoctoral Fellowships Molecular Biology of Membrane Receptors

The PARKE-DAVIS Division of Warner Lambert is forming a new Research Division of Biotechnology. We presently have postdoctoral positions available in this new division. Successful candidates will join on-going research to clone and characterize membrane receptors in the CNS and cardiovascular areas as well as other transmembrane transport receptors. The research involves using a combination of expression cloning and polymerase chain reaction techniques to identify novel membrane receptors, and the subsequent expressions systems. The structure/function relationships of receptors will be studied by site-directed mutagenesis. Candidates will also have the opportunity to interact with the computer Assisted Drug Design group (CADD) to work on receptor modeling.

Applicants should have a Ph.D. in Molecular Biology or equivalent area. Experience in constructing mammalian expression libraries is desirable.

Appointments are for one year, renewable for a second year. Compensation includes a \$32,000 annual salary and an attractive benefits package with relocation assistance.

PARKE-DAVIS' modern, expanding campus is located adjacent to the University of Michigan in an outstanding living and working environment, highly conducive to personal and professional growth as well as scientific achievement.

Interested parties should send their CV and references to **PARKE-DAVIS Pharmaceutical Research Division, Box JDM-816-PD, 2800 Plymouth Road, Ann Arbor, Michigan 48105.** "Smoke-Free Work Environment"

"Equal Opportunity in Action"



PARKE-DAVIS

A DIVISION OF **WARNER
LAMBERT**



Medical College of Ohio

Chair, Department of Physiology & Biophysics

The Medical College of Ohio (MCO), a free-standing, state-supported academic health science center, invites applications and nominations for the position of Chair of the Department of Physiology & Biophysics. Applicants and nominees should have distinguished records in biomedical research and education. A strong record of extramural grant funding and an active research program are essential. The successful candidate will be expected to recruit new faculty and provide leadership in the development of new programs and strengthening of existing programs in the department.

Nominations and applications should be received no later than December 1, 1990, or until position filled, and should be addressed to:

R. Douglas Wilkerson, Ph.D., Chairman
Search Committee for
Physiology & Biophysics Chair
Department of Pharmacology
Medical College of Ohio
P.O. Box 10,008
Toledo, Ohio 43699

The Medical College of Ohio is an equal opportunity/affirmative action employer. Applications from women and minorities are encouraged.

The Wellcome Trust

Director

Applications are invited for the position of The Director of The Wellcome Trust to succeed Dr P O Williams, FRCP, who retires on 31st December 1991. It is hoped that the individual appointed would join the Trust in the autumn of 1991 to allow a period of familiarisation.

The post is a demanding one, particularly as the Trust's support of biomedical research is growing rapidly. The opportunity to play a creative role in the future of biomedical science has never been greater and the ability to interact with the scientific community at all levels is of vital importance.

The Wellcome Trust is the largest grant-giving charity in the field of Medical Research in the United Kingdom. It has 140 employees and an annual expenditure in excess of £75 million.

The successful applicant must have a strong base in biomedical research and, preferably, but not essentially, be medically qualified. The large and increasing financial resources of the Trust mean that experience and confidence in administering such funds, and leading highly trained scientific and professionally qualified administrative staff, would be a distinct advantage. The Trustees are looking for proven ability and leadership and the salary will be commensurate with these aims.

Written applications, or written requests for further information, should be addressed to The Chairman, Post DT, The Wellcome Trust, 1 Park Square West, London NW1 4LJ.

Closing date 30th November 1990.

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR, EXPERIMENTAL RADIATION ONCOLOGY. Faculty position, School of Medicine, University of California, Los Angeles (UCLA). Requirements: Ph.D. with at least 3 to 4 years of postdoctoral research experience as a molecular oncologist and an interest in radiobiology and/or tumor immunology. Evidence of teaching ability would be an asset. Address inquiries with curriculum vitae to: **Dr. Robert Parker, Radiation Oncology, UCLA, Los Angeles, CA 90024-1714.** *Affirmative Action/Equal Opportunity Employer.*

ASSISTANT/ASSOCIATE PROFESSOR OF BIOLOGY

Beginning fall semester 1991. Tenure-track position at the assistant/associate professor level. Ph.D. required and college teaching experience preferred. Faculty member is expected to teach introductory, organismal, and physiological biology and develop an active research program. Arkansas College is a selective, church-related college located in a northcentral Arkansas community of 10,000. The city of Batesville serves as a cultural, trade, and medical center for an eight-county area. The college enrolled 855 students this fall. With a \$38-million endowment, a picturesque and highly functional physical plant, an 11-to-1 student to faculty ratio, and a demanding core curriculum, the college is broadly recognized as one of America's strongest regional liberal arts colleges. Send application, curriculum vitae, and names and telephone numbers of three references to: **Dr. Scott Peterson, Chair, Biology Search Committee, Arkansas College, P.O. Box 2317, Batesville, AR 72503.** Deadline for applications is 16 November 1990. *Affirmative Action/Equal Opportunity Employer.*

MOLECULAR BIOLOGIST

The Botanical Research Institute, Faculté des Arts et Sciences, Université de Montréal, has a strong commitment to develop an international and interdisciplinary plant biology research center. Applications are therefore invited to fill a tenure-track position at the **ASSISTANT, ASSOCIATE, OR FULL PROFESSOR** level. Functions: The successful candidate will be expected to develop a strong and independent research program, to supervise graduate students, and to participate in teaching at the graduate and undergraduate level. Requirements: Candidates should have a Ph.D. with at least 1 year of postdoctoral experience and a strong research background in any area of plant molecular biology, preferably of vascular plants. A working knowledge of French, or willingness to learn, is essential. Appointment date: 1 June 1991. Applicants should send a letter of interest, curriculum vitae, statement of research interests, and three letters of reference before 31 December 1990 to: **Dr. Raymond McNeil, Directeur, Département de Sciences Biologiques, Université de Montréal, C.P. 6128, Succursale A, Montréal, Québec, Canada H3C 3J7.** In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents. (0230-b.)

UNIVERSITY OF ARIZONA ASSOCIATE OR FULL PROFESSOR PLANT BIOCHEMISTRY/ MOLECULAR BIOLOGY

As part of a continuing expansion of interdisciplinary activities in plant biology, the Departments of Biochemistry, Molecular and Cellular Biology, and Plant Sciences are inviting applications for the position of associate professor or full professor. We are seeking an individual with a substantial record of research accomplishments in the general area of plant biochemistry or plant molecular biology. The successful candidate will have the option of a primary appointment in any of the three departments, with joint appointments possible in the other departments. Applicants should include curriculum vitae; a list of publications; a summary of future research plans; reprints of selected, recent publications; and the names of at least three references. *We strongly encourage applications from women and minority groups.* Review of complete applications will begin on 2 December 1990, and continue until the position is filled. Please send applications and nominations to: **Professor Richard B. Hallick, Search Committee Chairman, Department of Biochemistry, Biosciences West 524, University of Arizona, Tucson, AZ 85721.** FAX: 602-621-9288, email (hallick@arizona.bitnet), or voice at 602-621-3026. *The University of Arizona is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

MOLECULAR CARDBIOBIOLOGY CENTER FOR MOLECULAR MEDICINE YALE UNIVERSITY SCHOOL OF MEDICINE

The Yale University School of Medicine is seeking applicants at the level of **ASSISTANT, ASSOCIATE, AND FULL PROFESSOR** for the Molecular Cardiology Program in the newly created Yale Center for Molecular Medicine. Research in the program will focus on the general area of endothelial cell pathobiology. Applicants should have research experience in one of the following areas: cell surface adhesion and homing proteins, growth factors and their receptors, immunological reactions and inflammation, angiogenesis, hemostasis, or some aspect of vascular differentiation. M.D. or Ph.D. appointees will hold regular faculty positions in one of the existing departments of the School of Medicine.

Salary and partial research support will be provided. Curriculum vitae and three letters of reference should be submitted by 1 January 1991 to:

**Chairman, Molecular Cardiology
Search Committee
for the
Yale Center for Molecular Medicine
Yale University School of Medicine
P.O. Box 3333
310 Cedar Street
New Haven, CT 06510-8023**

Yale University is an Equal Opportunity/Affirmative Action Employer.

SMIT PROFESSOR OF CELL BIOLOGY CALIFORNIA INSTITUTE OF TECHNOLOGY

The Biology Division at the California Institute of Technology (Caltech) seeks to fill the new Howard Smit Chair in Cell Biology. Cell biology is defined broadly and encompasses investigators taking biochemical, biophysical, genetic, immunological, morphological, and structural approaches. Persons interested in this senior appointment should submit curriculum vitae to: **Cell Biology Search Committee, c/o Paul H. Patterson, Biology Division, 216-76, Caltech, Pasadena, CA 91125.** *Applications from women and minority candidates are especially encouraged.*

CHAIR, DEPARTMENT OF IMMUNOLOGY MAYO CLINIC

Applications are invited for chair, Department of Immunology, Mayo Clinic. Department has a highly interactive group of 11 full-time faculty with diverse interests in basic science and clinical immunology research. Department has a well-supported graduate program for Ph.D. and M.D./Ph.D. candidates. Applicants should have an internationally recognized record of research in immunobiology and experience in graduate education and administration. The department chair will be expected to continue an active research program and provide a leadership role in the recruitment of additional staff positions and in the professional development of younger faculty members. Send letter of application, curriculum vitae, brief statement of research interests, and names of three references by 30 November 1990 to: **David J. McKean, Ph.D., Department of Immunology, Mayo Clinic, Rochester, MN 55905.** *An Equal Opportunity/Affirmative Action Employer.*

CASE WESTERN RESERVE UNIVERSITY CHAIRPERSON DEPARTMENT OF PHARMACOLOGY

Case Western Reserve University School of Medicine invites applications and nominations for the position of chairperson in the Department of Pharmacology. We seek a person with a distinguished research program in cellular and molecular approaches to pharmacology. The research area could encompass, but not be limited to, such fields as signal transduction, macromolecular interactions, molecular endocrinology, and other areas dealing with basic or applied cellular and molecular biology. The school is particularly interested in maintaining a broad perspective in the future development of the department. Letters of application, curriculum vitae, and the names, addresses, and telephone numbers of three references should be submitted to: **Dr. Fritz M. Rottman, Chairman, Pharmacology Search Committee, School of Medicine, 2109 Adelbert Road, Cleveland, OH 44106-4901.** *Case Western Reserve University is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

ENDOWED CHAIR IN PROTEIN STRUCTURE AND FUNCTION

The University of Missouri-Kansas City announces a search for the new Marion Merrell Dow Chair in the School of Basic Life Sciences. The school is seeking an internationally recognized investigator with a demonstrated record of major external support who will strengthen the broadly defined area of protein structure and function. This position will complement the school's research emphasis in molecular recognition and its recent expansion into molecular aspects of aging research.

The successful candidate should have an extensive record in doctoral training supervision and qualify for a tenured professorship in the School of Basic Life Sciences. The holder of this endowed chair is expected to participate in the recruitment of at least two additional faculty members at the rank of assistant or associate professor with interests in related areas of research.

Consideration of qualified candidates will begin immediately and will remain open until a successful candidate has been identified. Letters of application and nominations should be accompanied by a current résumé and should be sent to:

**Chair Search
c/o Carol Johnson, Assistant to the Dean
School of Basic Life Sciences
University of Missouri-Kansas City
Kansas City, MO 64110
Telephone: 816-235-2249, FAX: 816-235-5158
Equal Opportunity Employer**

PATHOPHYSIOLOGY AND ASSISTANT/ASSOCIATE DEAN POSITION. Nominations and applications are invited for a faculty and administrative position. The teaching responsibilities of the position are in the area of pathophysiology and the administrative aspect involves serving as an assistant or associate dean to the dean of the College of Allied Health Professions with responsibilities for student advising and recruitment and for various other academic administrative assignments.

Minimum qualifications include an earned doctorate in either basic medical or health sciences or in medicine, successful teaching experience in pathophysiology or closely related area, solid record of scholarly work, and strong interest in and preferably experience in student advising and academic administration. The position carries a tenure-track appointment in the Department of Biomedical Sciences with salary and rank commensurate with qualifications. The level of the administrative appointment will be commensurate with qualifications.

Interested persons should submit a letter of intent to apply along with curriculum vitae and the names and addresses of three references to: **Dr. Patsy C. Covey, Dean, College of Allied Health Professions, University of South Alabama, Mobile, AL 36688.** Deadline for applications is 31 December 1990 or until filled. *Equal Opportunity/Affirmative Action Employer.*

DIRECTOR, SCHOOL OF CHEMISTRY AND BIOCHEMISTRY

Georgia Institute of Technology (Georgia Tech) invites nominations and applications for the position of Director of the School of Chemistry and Biochemistry. The school forms one of the strongest components in the College of Sciences at Georgia Tech, with an excellent, well-established program of research and teaching, both at the graduate and undergraduate levels. We are seeking a person with an outstanding record of scholarly and educational achievement to provide energetic leadership to our developing department. The School of Chemistry and Biochemistry currently has 105 undergraduate chemistry majors in an A.C.S. accredited program, 110 graduate students, and 20 other professional scientists and postdoctoral fellows. Our present academic faculty stands at 25, and we have a strong commitment to recruit a number of new faculty over the next several years. Evaluation of candidates for the position will begin 1 December 1990, but nominations and applications will be accepted until the position is filled. We hope to have the new director in position for the 1991 academic year. Applications, including complete curriculum vitae and names and addresses of four references, should be sent to: **Professor Richard F. Browner, Chair, Director Search Committee, School of Chemistry and Biochemistry, Georgia Institute of Technology, Atlanta, GA 30332-0400.**

Georgia Tech is an Equal Opportunity/Affirmative Action Employer.

Assistant or Associate Professorship

The Department of Pathology at the University of Tennessee Medical Center is recruiting Pathologists with special expertise in the two following areas:

- I. **DIAGNOSTIC PATHOLOGY: Cardiac Pathology, Pediatric Pathology, OB/Gyn Pathology or General Surgical Pathology**
- II. **CANCER RESEARCH: Cell and molecular biology of growth and differentiation control, oncogenes vs cancer suppressor genes and related areas**

Preference will be shown for pathologists with a history of, or a potential for, a strong publication record and extramural research support. The affiliated UT/Baptist Memorial Hospital Pathology Department currently consists of >40 staff members that are involved in clinical service, teaching and research in a center with outstanding resources. Those interested candidates should send their curriculum vitae and bibliography plus three letters of recommendation prior to Jan 1, 1991 to: ROBERT E. SCOTT, MD, PROFESSOR AND CHAIRMAN, PATHOLOGY DEPARTMENT, THE UNIVERSITY OF TENNESSEE MEDICAL CENTER, 800 MADISON AVE., (520 BMH) MEMPHIS, TN 38163.

"The University of Tennessee is an equal employment opportunity/affirmative action/ Title IX/Section 504 Employer"

DEAN

COLLEGE OF AGRICULTURE AND NATURAL RESOURCES

Michigan State University

Michigan State University invites applications and nominations for the position of Dean, College of Agriculture and Natural Resources. The Dean is the chief executive officer of the College and is responsible to the Provost and the President for the general administration of the College. The Dean is assisted by the Associate Deans/Directors of the four administrative units making up the College (the Agricultural Experiment Station, the Cooperative Extension Service, the Office of Academic and Student Affairs, and the Institute of International Agriculture).

Michigan State University, founded in 1855, is the pioneer land-grant institution in the United States and a member of the Association of American Universities. The College of Agriculture and Natural Resources, one of MSU's fourteen academic colleges is the unit responsible for the legislatively appropriated funds for the Michigan Agricultural Experiment Station and the Michigan Cooperative Extension Service and has administrative relationships with five of the other colleges. The College, with a student enrollment of 3,400 including 650 graduate students, employs about 400 on-campus faculty, 50 academic staff, 170 administrative professionals and 175 clerical technical employees on campus and about 700 off-campus employees including 600 extension personnel across the state.

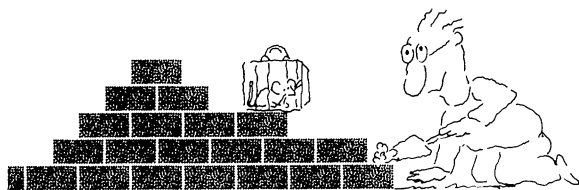
Applicants must have an earned doctorate and teaching, research and service credentials to meet the standards for appointment as a full professor with tenure in one of the College's academic departments or schools. In addition, the individual must have experience in and an understanding of agriculture and natural resource systems with a demonstrated knowledge of the land-grant philosophy and its directed teaching, extension, research and international missions. Expected starting date is no later than July 1, 1991.

Applications and nominations are requested as soon as possible, preferably by December 1, 1990. Applications and nominations should be sent to:

Dr. Larry G. Hamm, Chairperson, Search and Rating Committee, Dean of College of Agriculture and Natural Resources, c/o Office of the Provost, 432 Administration Building, Michigan State University, East Lansing, MI 48824

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1515 Broadway
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Clinical Research Physicians

Procter & Gamble has immediate openings for Clinical Research Physicians in Cincinnati, Ohio. Candidates should be MD's or MD/PhD's with post-graduate clinical experience and strong research backgrounds. Prior research experience in allergy, immunology, or diseases of the respiratory tract is desirable but not mandatory. These physicians will be responsible for coordinating clinical development of investigational drugs and will interact daily with management and other professionals.

We offer competitive salary, comprehensive benefits, and excellent opportunities for career advancement along with the challenge and opportunity to impact a rapidly growing segment of our business.

Applicants must be presently authorized to work in the U.S. on a full-time basis.

Send CV to:

Dr. T. J. Logan, Research Physicians, Box S
THE PROCTER & GAMBLE COMPANY
P.O. Box 398707, Cincinnati, Ohio 45239-8707.

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POSITIONS OPEN

INTERNATIONAL PHYSICIANS FOR THE PREVENTION OF NUCLEAR WAR (IPPNW) EXECUTIVE DIRECTOR

IPPNW, 1985 Nobel Peace Prize recipient, with 250,000 members worldwide, seeks executive director to manage staff of 25 at international headquarters in Cambridge, Massachusetts, and provide oversight and coordination for affiliate relations, finance and administration, public affairs, and governance. Salary: \$70,000 plus benefits.

Candidates with at least 5 years of related experience are encouraged to apply with cover letter and résumé to: IPPNW Search Committee, P.O. Box 694, Boston, MA 02120. No telephone inquiries.

An Equal Opportunity Employer.

DIRECTOR

The Centre de recherche en reproduction animale at the Faculty of Veterinary Medicine, Université de Montréal, invites applications for the post of director. The research center consists of ten researchers and the main areas of research are currently gonadal function and early embryonic development in farm animals. The director holds an academic position in one of the departments of the faculty and is a renewable 4-year appointment. Functions: under the authority of the dean of the faculty, the director is responsible for the formulation and the administration of policies designed to facilitate and promote research activities in the field of animal reproduction in the center itself as well as in the faculty at large. In particular, he/she is expected to contribute actively to a broadening of the financial basis of the center. The director is also expected to participate directly in the research activities of the center. Requirements: candidates must have a Ph.D. or equivalent and an established reputation for research in the field of reproduction, the ability to provide leadership to a research team, and demonstrated capacity to attract and supervise graduate students. Since French is the working language at the university, the director should acquire a working knowledge of French within a year of appointment. Salary: according to experience and qualification. Position available: at a date to be discussed. Applicants should forward a statement of interest and curriculum vitae before 26 November 1990 to: MF. Serge Larivière, Doyen, Faculté de médecine vétérinaire, Université de Montréal, Case postale 5000, Saint-Hyacinthe, Québec, Canada J2S 7C6. Telephone: 514-773-8521. *In accordance with Canadian immigration regulations, priority will be given to Canadian citizens and permanent residents of Canada. (0227.)*

FACULTY POSITION. The Department of Geology, Stanford University, invites applications for a tenure-track faculty position at the ASSISTANT, ASSOCIATE, OR FULL PROFESSOR level in isotope geology. We seek outstanding candidates with proven research records in the applications of ion microprobe analyses to significant earth science problems to join our new initiative to establish a national Center for Ion Probe Analysis (CIPA). CIPA will be located in the new Green Earth Sciences Building at Stanford and will be operated jointly with the Isotope Geology Branch of the U.S. Geological Survey located in Menlo Park. Other organizations, including several of the University of California campuses, Lawrence Livermore National Laboratory, and Charles Evans & Associates, will be participating members of CIPA. We anticipate that this new faculty position will be filled by January 1991, following successful completion of our fund-raising efforts for a third-generation, high-resolution, high-transmission ion microprobe and associated facilities. The successful applicant would become a member of a planned scientific/technical staff of six who would oversee the day-to-day operations of CIPA. He or she would also be expected to develop a world-class program of research, teaching, and graduate training in isotope geology.

Qualified applicants should send up-to-date curriculum vitae, a statement of teaching and research interests and experience, and the names of at least three persons familiar with the candidate's research accomplishments and professional background to: Professor Gordon E. Brown, Jr., Department of Geology, Stanford University, Stanford, CA 94305-2115. The closing date for applications is 15 June 1991.

Stanford University is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

SCIENCE JOURNALIST THE PLANT CELL

Full-time journalist for leading monthly journal of plant molecular biology to research and write essays, commentaries, meeting reports, and articles about research, funding, and legislation; contact scientists to write reviews; organize letters to the editor. Requirements: B.S./B.A. or higher, background in biology/journalism, outstanding communications skills, familiarity with scientific/societal issues of interest to plant scientists. Computer skills desired. Competitive salary and generous benefits. Nonsmoking office. Application deadline: 1 December 1990. Send résumé, writing samples, and three letters of recommendation to: Science Journalist, The Plant Cell, American Society of Plant Physiologists, 15501 Monona Drive, Rockville, MD 20855. *Affirmative Action/Equal Opportunity Employer.*

The University of Alabama at Birmingham, *An Equal Opportunity/Affirmative Action Employer*, invites applications for **FACULTY APPOINTMENTS** in the Department of Pathology. An applicant should have an M.D., M.D.-Ph.D., or Ph.D. degree in one of the basic sciences such as biochemistry, cell biology, etc., and desire to focus his/her efforts on graduate education and research. Applicants will be considered who either have an existing independently funded research program or have a plan to develop such a program.

Academic rank and tenure are dependent upon the qualifications of the applicant.

Current curriculum vitae of interested persons should be forwarded to: Jay M. McDonald, M.D., Professor and Chairman, Department of Pathology, The University of Alabama at Birmingham, University Station, Birmingham, AL 35294.

MOLECULAR GENETICIST/ PSYCHOPHARMACOLOGIST

Mayo Clinic/Mayo Medical School invites applicants for a **FACULTY POSITION** in the Department of Psychiatry and Psychology, in close collaboration with members in the Department of Pharmacology and/or the Department of Biochemistry and Molecular Biology. Candidates should have primary interests in major psychiatric disorders and be pursuing these interests with the methods of molecular genetics and/or molecular pharmacology. M.D. and clinical training in psychiatry are desirable but not required. Mayo will provide generous space and start-up funds in addition to an attractive package of salary and benefits. Academic rank will be determined by qualifications; established investigators are also encouraged to apply. Submit curriculum vitae with names and addresses of three or more references to: Toshihiko Maruta, M.D., Chairperson of Search Committee, Department of Psychiatry and Psychology, Mayo Medical School, Rochester, MN 55905. *An Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITION IN VIROLOGY

The Department of Microbiology and Immunology of the University of Oklahoma Health Sciences Center invites applications for a tenure-track position with a preferred interest in the area of molecular biology or immunology of viruses. Candidates with postdoctoral experience as well as more senior scientists will be considered: rank will depend on the qualifications of the successful applicant. The applicant should have documented excellence in conducting independent research and be able to compete for extramural research support. Academic responsibilities will include instruction of medical, dental, and graduate students.

The position will provide excellent opportunities for conducting basic biomedical research in a department of 12 faculty members with a strong emphasis on the molecular genetics and immunology of infectious agents. In addition, opportunities exist for interaction within the newly created center for molecular medicine. Ample start-up funds will be provided.

Please send curriculum vitae, a brief statement of research interest, copies of representative publications, and the names of three references to:

Dr. Joseph J. Ferretti
Department of Microbiology and Immunology
University of Oklahoma Health Sciences Center
Oklahoma City, OK 73190

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

POSITIONS OPEN

FACULTY POSITIONS IN MOLECULAR BIOLOGY CASE WESTERN RESERVE UNIVERSITY

Applications are invited for two tenure-track positions, at least one of which is expected to be at the ASSOCIATE OR FULL PROFESSOR level. We seek candidates with strong independent research programs in prokaryotic or eukaryotic molecular biology using any combination of molecular, biochemical, and/or genetic approaches. Submit curriculum vitae to: Dr. Fritz M. Rottman, Chairman, Department of Molecular Biology and Microbiology, Case Western Reserve University, School of Medicine, Cleveland, OH 44104. Junior applicants should include their present and future research plans and three letters of reference. *Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITION IN BIOMEDICAL ENGINEERING AT NORTHWESTERN UNIVERSITY

The Biomedical Engineering Department of Northwestern University has a tenure-track position in systems physiology or biomechanics/transport at the ASSISTANT PROFESSOR level for the 1991-92 academic year. Candidates should have earned a Ph.D. in either engineering or in a related physical science or quantitative physiology. Interested applicants should submit by 1 January 1991: curriculum vitae, outline of future research, teaching interests, and names and addresses of at least three references to: Andrew E. Kertesz, Chairman, Biomedical Engineering Department, Northwestern University, 2145 Sheridan Road, Evanston, IL 60208-3107. *Northwestern is an Equal Opportunity/Affirmative Action Employer. Women and minorities are especially encouraged to apply.*

UNIVERSITY OF CALIFORNIA, IRVINE FACULTY POSITIONS IN DEVELOPMENTAL AND CELL BIOLOGY

The Department of Developmental and Cell Biology invites applications for two tenure-track positions, one at the ASSISTANT PROFESSOR level in developmental biology and one at the PROFESSOR level in cell biology effective September 1991. Our department covers a range of topics in developmental biology and cell biology. We seek outstanding candidates in either of these broad fields. Although we are particularly interested in making appointments in the areas of protein targeting, structure-function relationships of proteins, molecular aspects of cell determination, and cell-cell interactions or in developmental neurobiology, we will consider candidates with research interests in any part of cell or developmental biology using animal or plant systems. *Women and minorities are especially encouraged to apply.* Applications should include curriculum vitae and selected reprints of publications as well as a statement of present and future research plans. Complete applications and names of three references should be sent to: Hans Bode, Chair of Search Committee, Department of Developmental and Cell Biology, University of California, Irvine, CA 92717. Telephone: 714-856-6928. Evaluation of candidates will begin 1 December 1990. *The University of California, Irvine, is an Affirmative Action/Equal Opportunity Employer.*

FACULTY POSITION. The Department of Biochemistry and Biophysics at Iowa State University seeks applications for a tenure-track position at the level of ASSISTANT OR ASSOCIATE PROFESSOR. The successful applicant is expected to develop an independent research program that emphasizes biochemical aspects of important biological problems. General areas of interest include, but are not limited to, membrane phenomena, molecular immunology, signal transduction, protein chemistry and enzymology, and/or genetic regulation. Applicants should also have an interest in graduate and undergraduate teaching. Generous start-up funds and space in the newly completed Molecular Biology Building will be available. Applicants should send curriculum vitae and description of research accomplishments and interests and arrange for three letters of reference to be sent to: Dr. Alan M. Myers, Department of Biochemistry and Biophysics, 397 Gilman Hall, Iowa State University, Ames, IA 50011. To ensure full consideration, all materials should be received by 2 January 1991. *Iowa State University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

POSITIONS OPEN

FACULTY POSITIONS ASSISTANT/ASSOCIATE/FULL PROFESSOR DEPARTMENT OF BIOCHEMISTRY UNIVERSITY OF ILLINOIS COLLEGE OF MEDICINE

Applications and nominations are invited for tenure-track faculty positions for September 1991. We are seeking candidates who are using contemporary approaches to investigate problems in the general area of growth factor-signal transduction regulation of cell growth control and differentiation. Applicants should have a Ph.D., postdoctoral experience, a strong record of research accomplishments, and demonstrable potential for the development of an independent research program. At the tenured level, applicants must have a strong record of research accomplishment. The Department of Biochemistry consists of 20 full-time faculty and has hired several new faculty in the areas of gene expression and membrane biology in recent years. The department and college are well equipped and have research support facilities that include nucleic acid and protein synthesis and sequencing. Applications should include curriculum vitae, a summary of current and future research plans, and the names of at least three individuals for references. Application deadline is 31 December 1990. Send applications or nominations to: **Chairman, Faculty Search Committee, Department of Biochemistry (M/C 536), University of Illinois College of Medicine at Chicago, 1853 West Polk Street, Chicago, IL 60612.** *Affirmative Action/Equal Opportunity Employer.*

FACULTY POSITIONS AVAILABLE IN GENETICS

The Department of Molecular Genetics, Biochemistry, and Microbiology is committed to a major expansion of its faculty, currently numbering 26 full-time members. We currently have strong research programs in a variety of areas, and are the lead department in an NHLBI-sponsored Program of Excellence in Molecular Biology of the Heart and Lung. One of our openings is for a human geneticist. The appointment can be at any level and generous space and start-up funds will be provided. The department has a strong and active graduate program, and maintains core facilities in cell culture, DNA synthesis and sequencing, and production of transgenic mice. All of these factors contribute to an excellent research atmosphere.

Interested applicants should submit curriculum vitae, brief description of anticipated research, and the names of three qualified references to:

Jerry B. Lingrel, Ph.D.
Professor and Chair
Department of Molecular Genetics,
Biochemistry, and Microbiology
University of Cincinnati College of Medicine
231 Bethesda Avenue
Cincinnati, OH 45267-0524

FACULTY POSITION: PROGRAM IN PROTEIN STRUCTURE AND DESIGN UNIVERSITY OF MICHIGAN

A search is being re-opened for a tenured or tenure-track position (rank open) associated with the Program in Protein Structure and Design. The academic appointment will be in the Department of Chemistry, with a joint research appointment in the Biophysics Research Division. We seek an individual who will interact with and complement the existing structure groups in the program (x-ray crystallography; EPR, NMR, and vibrational spectroscopies; electron microscopy; theoretical and computational techniques). Senior candidates must have an internationally recognized program and junior candidates must provide evidence of ability to develop a strong research program oriented around modern theoretical approaches to analyzing and predicting protein structure and function. Teaching duties will be associated primarily with the Department of Chemistry. Interested candidates should send, by 1 January 1991, curriculum vitae documenting qualifications, professional accomplishments, and future plans, together with names and addresses of three references to:

Professor S. Krimm, Director
Program in Protein Structure and Design
University of Michigan
2200 Bonisteel Boulevard
Ann Arbor, MI 48109-2099

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2 NOVEMBER 1990



ImmuLogic is a growing company dedicated to the creation of novel therapeutic and diagnostic products to modulate and monitor the human immune system. We employ state-of-the-art techniques and proprietary knowledge in immunology, biochemistry, and molecular biology to develop products in the vaccine, allergy, and autoimmune disease areas. We collaborate with world leaders in the pharmaceutical industry and in academic institutions and are already recognized as a leading force among companies focusing on immunology. ImmuLogic provides an outstanding working environment and a unique opportunity to broaden your scientific and technical knowledge. We offer competitive salaries and benefits as well as equity participation through an incentive stock option program.

RESEARCH ASSISTANTS/ASSOCIATES

PROTEIN CHEMISTRY

This individual will serve as a **SENIOR TECHNICAL MEMBER** in our Protein Chemistry Group. He or she will be involved in the development of purification of native and recombinant human allergens and the chemical characterization of recombinant and modified proteins. The position requires a Master's degree or a Bachelor's degree and at least five years relevant experience. Expertise in HPLC, LC and gel electrophoresis is required. A background in immunoassay, protein modification and other biophysical techniques is a plus.

MOLECULAR IMMUNOLOGY

This individual will join a research team examining the role of T lymphocyte derived cytokines in the human allergic immune response. Minimum requirements for the position include a Master's degree with 1-2 years relevant experience or a Bachelor's degree and at least 2 years relevant experience. Prior experience with recombinant DNA techniques, including isolation and analysis of mRNA, is required. Familiarity with PCR and T cell culture is preferred.

Please send cover letter and resume to: **ImmuLogic Pharmaceutical Corporation, One Kendall Square, Building 600, Cambridge, MA 02139, ATTN: Human Resources Department**

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POSITIONS OPEN

FACULTY POSITIONS. Section of Genetics, Duke University Medical Center. A newly created Section of Genetics at the Duke University Medical Center invites applications for several tenure-track, junior level faculty positions. Although individuals utilizing molecular genetic approaches to questions in most any important area of biology will be considered, we are particularly interested in those applying genetic approaches to the study of development. Applicants should forward curriculum vitae, a statement of research plans, and the names of three references to: **Dr. Joseph R. Nevins, Head, Section of Genetics, Duke University Medical Center, P.O. Box 3054, Durham, NC 27710. Duke University is an Equal Opportunity/Affirmative Action Employer.**

FACULTY POSITIONS MICROBIOLOGY AND GENETICS

The Department of Biological Sciences, University of Southern Mississippi, invites applications for two tenure-track positions at the **ASSISTANT PROFESSOR** level. Position One is in microbiology with teaching duties and research interests in pathogenic microbiology. Position Two is in genetics with teaching duties to include courses in genetics and developmental biology and research interests in either of these areas. The successful candidates are expected to teach undergraduate and graduate courses, develop vigorous independent research programs at the molecular level, and direct M.S. and Ph.D. students. The University of Southern Mississippi is one of the leading comprehensive universities in the region and is located in the city of Hattiesburg, ranked among the top six micropolitan areas in the nation (*1990 Rating Guide to Life in America's Small Cities*). Applicants should submit a statement of research plans and teaching interests, curriculum vitae, and names of at least three references. Applications must be postmarked by 5 January 1991 and should be sent to: **Dr. Glen Shearer, University of Southern Mississippi, Department of Biological Sciences, Southern Station Box 5018, Hattiesburg, MS 39406. The University of Southern Mississippi is an Equal Opportunity/Affirmative Action Employer.**

TWO CHEMISTRY FACULTY POSITIONS

The Department of Chemistry and the Institute for Biomolecular Science at the University of South Florida (USF) invite applications for two tenure-track positions in the Department of Chemistry at the **ASSISTANT PROFESSOR** level starting August 1991. One position is for a theoretical chemist whose research program will focus on computational approaches to understanding biological problems. The second position is for a biological NMR spectroscopist. The latter position will include support for a technician and the instrumentation available to the appointee includes a 360-MHz wide-bore high resolution spectrometer system suitable for studies of a variety of nuclei. State-of-the-art computing facilities are available and start-up costs are competitive. Both positions allow for considerable collaborative research and require a commitment to quality teaching at the undergraduate and graduate levels.

The USF Chemistry Department is composed of 31 faculty members, 65 graduate students, and a support staff of 20 that includes two electronics technicians. The Institute for Biomolecular Science is a multidisciplinary research consortium of 50 USF faculty members and is funded through a special appropriation by the State University System and the Florida legislature. The university itself has a current enrollment of 32,000 students and is located in a rapidly growing area of the country that enjoys a splendid climate.

Candidates for the positions, which are subject to final budgetary approval, should send curriculum vitae, three letters of recommendation, and a detailed description of proposed research to: **Dr. Stewart W. Schneller, Chair, Department of Chemistry, University of South Florida, Tampa, FL 33620-5250 by 29 November 1990.**

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

POSTDOCTORAL POSITION. Available immediately to study developmentally regulated penicillin-binding proteins in *Bacillus subtilis*. Project combines molecular biology and microbial physiology. Send curriculum vitae and names of three references to: **Dr. C. Buchanan, Department of Biological Sciences, Southern Methodist University, Dallas, Texas 75275. Equal Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

FACULTY POSITION IN PLANT PHYSIOLOGICAL ECOLOGY SAINT MARY'S COLLEGE OF CALIFORNIA

Applications are invited for a tenure-track position at the **ASSISTANT PROFESSOR** level to begin with the 1991-92 academic year. Qualifications include Ph.D. with a broad background in biology and research specialization in plant physiological ecology. Applicants must demonstrate excellence in teaching and commitment to an active research program involving undergraduates. Teaching responsibilities include plant physiology, general ecology, and introductory biology.

Saint Mary's College is a Catholic coeducational liberal arts college of over 3600 students (2100 undergraduates) located in the San Francisco Bay Area. We seek faculty with a solid liberal arts background who evidence a love of ideas, strong scholarship, and dedicated service. Send curriculum vitae, statement of teaching and research goals, transcripts (undergraduate and graduate), and three letters of recommendation to: **Dr. J. F. Lester, Department of Biology, P.O. Box 4507, Saint Mary's College, Moraga, CA 94575.** Consideration of completed applications will begin 4 January 1991 and continue until the position is filled.

Committed to diversity and an Equal Opportunity Employer, the college encourages women, people of color, disabled individuals, veterans, and Christian Brothers to apply.

POSTDOCTORAL POSITION IN VASCULAR BIOLOGY. A position is available immediately to study the basic molecular and cell biology of protease inhibitors associated with megakaryocytes/platelets and endothelial cells. A strong background in either protein chemistry, cell biology, or molecular biology is desired. Send curriculum vitae and names of three references to: **Dr. Raymond R. Schleef, Committee on Vascular Biology, IMM-14, Research Institute of Scripps Clinic, 10666 North Torrey Pines Road, La Jolla, CA 92037. Equal Opportunity Employer.**

ENVIRONMENTAL PATHOLOGY/TOXICOLOGY. NRSA-supported **POSTDOCTORAL POSITIONS** available in 15 research laboratories. Emphasis on cellular and molecular effects (mutagenesis, neurotoxicity, biotransformation) of toxic chemicals (especially trace metals, aromatic hydrocarbons, ozone respiratory epithelial injury) and behavioral teratology. Inquiries: **Dr. N. K. Mottet, Program Director, Department of Pathology, SM-30, University of Washington, Seattle, WA 98195. NRSA requires U.S. citizenship or permanent residency. An Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION IN MOLECULAR GENETICS. To study the mechanism of lipoisomerase I in illegitimate recombination of hepatitis B virus DNA with cellular DNA using a recently developed in vitro integration assay. Competitive salary commensurate with experience. Send curriculum vitae and names of three references to: **Dr. Charles E. Rogler, Department of Medicine, Albert Einstein College of Medicine, 1300 Morris Park Avenue, Bronx, NY 10461. Telephone: 212-430-2607. Equal Opportunity Employer.**

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POSITIONS OPEN

PULMONARY DEPARTMENT POSTDOCTORAL POSITION

Immediate opening for a postdoctoral fellow with a strong background in microbiology and/or immunology to participate in a Harvard-based study. Project to study host factors involved in resistance to *Pneumocystis carinii*.

Position requires two or more years of postdoctoral experience. Please send résumé to: **Karen Lopes, Grants Administrator, New England Deaconess Hospital, 185 Pilgrim Road, Boston, MA 02215. Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION. In quantitative genetics/genetic epidemiology under the direction of Dr. Candace Kammerer. The successful candidate will collaborate in multidisciplinary research programs involving human subjects and pedigreed colonies of 3200 baboons and 1200 marsupials. Research projects include evaluations of genetic analysis methods using computer-simulated data and investigations of genetics of atherosclerosis, hypertension, osteoporosis, and skin cancer. Salary ranges from \$21,694, with consideration for prior relative postdoctoral experience. Send curriculum vitae and the names, addresses, and telephone numbers of three references to: **Personnel Director (056), Southwest Foundation for Biomedical Research, P.O. Box 28147, San Antonio, TX 78228-0147. An Equal Opportunity Employer, M/F.**

POSTDOCTORAL POSITION IN MICROBIOLOGY/BIOCHEMISTRY. Available to study bacterial degradation of organic pollutants found in groundwater. Emphasis is on development and study of strains able to degrade substituted aromatic compounds. Background in microbial physiology, molecular biology, and strain construction helpful. Position is at Tyndall Air Force Base, Panama City, Florida. Annual stipend range is \$29,150 to \$41,400. Doctoral degree received within 3 years of starting date required, as is U.S. citizenship or PRA status. Contact: **Postgraduate Research/Tyndall, Science/Engineering Education Division, Oak Ridge Associated Universities, P.O. Box 117, Oak Ridge, TN 37831-0117. Telephone: 615-576-3456.**

POSTDOCTORAL POSITIONS MOLECULAR BIOLOGY OF EPITHELIAL TRANSPORT HARVARD MEDICAL SCHOOL

Positions are available for enthusiastic postdoctoral fellows to join a group actively involved in the molecular and cell biology of glucose and amino acid transport. Studies involve expression cloning using *Xenopus* oocytes, recombinant DNA techniques, protein chemistry, and immunocytochemistry. Experience required in at least one of these fields. Send curriculum vitae and names of three references to: **Matthias Hediger, Ph.D., Renal Division, Brigham and Women's Hospital, 75 Francis Street, Boston, MA 02115.**

POSTDOCTORAL POSITIONS, PROTEIN ENGINEERING: MATERIALS SCIENCE AND ANTIVIRAL VACCINES. Postdoctoral research associate positions available early to mid-1991 for research on (i) creation of novel protein materials by genetic strategies and (ii) development of recombinant antiviral vaccines. Position (i) involves development of copolypeptides of periodic structure, to form lamellar crystals of predicted dimension and surface functionality. Aims include defining sequence effects on chain-folding, development of protein polymers containing unusual amino acids, and exploring biomedical applications of repetitive protein polymers. Position (ii) involves creation of recombinant vaccine immunogens and adjuvants, featuring viral antigens and periodic protein sorbents. The project team includes molecular biologists and polymer scientists. Program directors are: Drs. M. J. Fournier and T. L. Mason, Department of Biochemistry, and Dr. D. A. Tirrell, Department of Polymer Science and Engineering. Candidates should have a Ph.D. and experience with appropriate technologies, to include polymeric materials, protein structure, or molecular genetics. Salary commensurate with experience. Deadline for applications: 1 December 1990 or until suitable candidates have been identified. Please send résumé, brief summary of research experience, publications, and three letters of reference to: **Maurille J. Fournier, Department of Biochemistry, Lederle Graduate Research Center, University of Massachusetts, Amherst, MA 01003. An Affirmative Action/Equal Opportunity Employer.**

R E S E A R C H

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MEDICAL OFFICER (RESEARCH)

Postdoctoral position available in the National Institutes of Health, National Institute of Allergy and Infectious Diseases, Division of Intramural Research, Office of the Scientific Director, Laboratory of Molecular Allergy and Immunology Section, Public Health Service, Rockville, Maryland. This institute is seeking an MD trained in membrane biochemistry and molecular genetics with an interest in investigating the early events in IgE-mediated degranulation of mast cells at the molecular level. Applicants should have at least six years of postdoctoral training/experience. He/she will be considered for a permanent career or career conditional appointment at the GM-15 level (\$62,698 - \$80,113 per annum).

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POSTDOCTORAL SCIENTIST

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Program of Excellence in Molecular Biology of the Heart and Lung Special Postdoctoral Positions

Our Program of Excellence in Molecular Biology of the Heart and Lung has as one of its goals the training of post doctoral fellows in the use of molecular genetic approaches to study heart and lung function. Individuals begin at the postdoctoral level and have the opportunity to progress to junior faculty status. Individuals work closely with the sponsor but in the final year will develop a research program separate from that of the sponsor and apply for independent funding.

The program is open to Ph.D.s or M.D.s with training in molecular genetics who wish to apply their skills to significant problems of heart or lung or to individuals with strong backgrounds in heart and lung who wish to develop molecular genetic tools for continued study of these problems. We are particularly interested in recruiting minorities to the Program. Stipends begin at \$25,000 per year with benefits. Openings are available in several of the laboratories listed below.

1. **Jerry Lingrel** – Regulation of the Na,K-ATPase genes and structure-function studies of the enzyme. Identification of the cardiac glycoside binding site using site specific mutagenesis.
2. **Jeffrey Whitsett** – Characterization of lung surfactant proteins and genes.
3. **Winston Kao** – Collagen gene expression in the lung.
4. **Gary Shull** – structure-function relationships and genetic regulation of Ca-transporting ATPases of intracellular and plasma membranes.
5. **Jeffrey Robbins** – Study of cardiac contractile proteins and growth and developmental control of muscle and pulmonary proteins.
6. **Donal Luse** – Transcriptional analysis of lung surfactant protein gene promoters.
7. **Steven Potter** – Manipulating genes important in heart and lung development by insertional mutagenesis and targeted modification in ES cells.
8. **Arnold Schwartz** – Structure and function of CA^{++} channel proteins (heart, brain, vascular smooth muscle) and gene regulation; isolation of receptors for calcium antagonists.
9. **Judith Harmony** – Role of apolipoproteins in development; the regulation of cell proliferation and differentiation by apolipoproteins.
10. **Thomas Doetschman** – Gene targeting in ES cells using homologous recombination. Focus is on vasculogenesis, angiogenesis and cardiogenesis.

Applicants should submit a C.V. and the names of three references to Jerry B. Lingrel, Ph.D., Director, Program of Excellence in Molecular Biology, Department of Molecular Genetics, Biochemistry and Microbiology, University of Cincinnati College of Medicine, Cincinnati, Ohio 45267-0524.

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Excellent salary and fringe benefits package. Interested candidates should send their CV and the names of three references in confidence to:

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Ref nr 8800/90

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This is a new chair in medical molecular genetics at the faculty of medicine. The successful applicant will have a Ph.D., perhaps in combination with an M.D. and should be active in international front-line research in medical molecular genetics of relevance for human disease. Experience from work with recombinant DNA technology is mandatory. He/she will participate in undergraduate teaching of medical students and training of Ph.D. students. Excellent laboratory facilities are available and there are extensive opportunities to collaborate with other research groups at the Biomedical Center of Uppsala which is one of the largest biomedical research facilities in Scandinavia.

The application should be directed to The Government of Sweden under the address: The Registrar, Uppsala University, Box 256, S-751 05 Uppsala, Sweden, no later than November 16, 1990.

The applicant should submit a curriculum vitae (duly signed and witnessed), a short written account of his/her scientific and pedagogic activities, certificates and such other documents as to which the applicant wishes to refer, and a list of scientific publications. All in four copies. It should be clear from the written account which results and other scientific achievements the applicant considers should be primary observed in the matter.

The applicant should also indicate and send in those 20 publications which he/she considers most adequate in four copies and the rest of the publications referred to in one copy. Copies of publications should be sent no later than November 29, 1990.

For further information, please contact Prof. Hans R. Ulfendahl, Dean of the Medical Faculty. Telephone 46-18-174182 or Telefax 46-18-55 35 41.

National Cancer Institute Program in Embryonal Stem Cell Research

The Division of Cancer Biology, Diagnosis, and Centers, of the National Cancer Institute, National Institutes of Health is establishing a new intramural research program employing embryonal stem cell technology. Full funding, including equipment, operating expenses and salaries will be provided. We are currently seeking an individual with appropriate experience to head this program. This tenure-track position will require establishment of an independent research program as well as collaborative interactions with other NCI investigators. Salary will depend on experience.

Interested individuals should send a letter of application, curriculum vitae, and a brief statement of research interests to:

Dr. Stuart Rudikoff
Laboratory of Genetics
National Cancer Institute
Building 37, Room 2B-15
9000 Rockville Pike
Bethesda, MD 20892
(301) 496-1572

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Postdoctoral Position

Expand and complement an ongoing research program focused on the role of cell adhesion molecules in neurobiology and their diagnostic applications in human disease. Ph.D. required in Neuroscience, Biochemistry or Cell Biology. Experience in molecular neurobiology and/or protein chemistry. Familiarity with immunocytochemical, in situ hybridization, and tissue culture techniques is desirable.

At Becton Dickinson, you'll earn a generous salary and benefits package, while contributing to the future of world health. Please send your resume to:
Becton Dickinson & Company Research Center, 21 Davis Drive, P.O. Box 12016, Research Triangle Park, NC 27709-2016.
AA/EEO Employer.

**BECTON
DICKINSON**

MOLECULAR VIROLOGISTS

ISIS is seeking innovative Ph.D. and BS/MS scientists to develop programs in virology, particularly influenza CMV, HSV and HIV. Candidates should have a strong background in molecular biology and the ability to lead a molecular virology research program within a drug discovery effort. The program will be linked with a strong synthetic chemical effort providing novel oligonucleotide analogs designed to specifically regulate gene expression. Candidates should also have at least two years' experience past the Ph.D. Experience in a major pharmaceutical company is highly desirable.

ISIS Pharmaceuticals offers a competitive salary, benefits, and substantial equity participation. Our new facility is located in San Diego County near the University of California, San Diego and other major scientific centers. Please submit a cover letter, cv, reprints of relevant publications, and names and telephone numbers of references to: Dr. David J. Ecker, ISIS Pharmaceuticals, 2280 Faraday Avenue, Carlsbad, CA 92008. An Equal Opportunity Employer.

ISIS PHARMACEUTICALS



**BOSTON UNIVERSITY
CHAIRMAN
DEPARTMENT OF
GEOGRAPHY**

Applications and nominations are invited for Chairman and Professor with tenure, Department of Geography. A research emphasis relevant to environmental studies/science (broadly defined), especially in its geographic context, is preferred. Candidates may be from geography or related fields. Boston University grants master's and doctoral degrees in geography, emphasizing energy and environmental studies; biogeography-climatology; GIS/remote sensing; Third-World development; and regional analysis. The department has strong linkages with the Center for Remote Sensing, the Center for Energy and Environmental Studies, and other departments, including biology, geology, international relations, and economics. Apply to: Dr. Farouk El-Baz, Center for Remote Sensing, Boston University, 725 Commonwealth Avenue, Boston, MA 02215. Applications reviewed as received; apply by December 15, 1990, for full consideration. Women and minorities especially urged to apply. An equal opportunity, affirmative action employer.

POSITIONS OPEN

POSTDOCTORAL POSITIONS AVAILABLE CONTROLLED RELEASE POLYMERS FOR BRAIN TUMORS

The National Cancer Institute has formed a National Cooperative Drug Development Program to develop biodegradable, controlled-release polymers to release anticancer agents to treat brain tumors. Studies will include polymer development, pharmacokinetics and modeling, drug development, formulations, and in vitro and in vivo testing for efficacy and neurotoxicity. Fully funded postdoctoral positions are now available. Interested individuals should send curriculum vitae and the names, addresses, and telephone numbers of three references. For more information contact one of the following:

Henry Brem, Principal Investigator, Department of Neurosurgery, Ophthalmology, and Oncology, Meyer 7-113, Johns Hopkins University School of Medicine, 600 North Wolfe Street, Baltimore, MD 21205.

Robert Langer, Department of Chemical Engineering, Massachusetts Institute of Technology, E25-342, 77 Massachusetts Avenue, Cambridge, MA 02139.

O. Michael Colvin, Department of Oncology/Pharmacology, 1-121, Johns Hopkins Oncology Center, 600 North Wolfe Street, Baltimore, MD 21205.

W. Mark Saltzman, Department of Chemical Engineering, Johns Hopkins University, NEB 42, 34th and Charles Streets, Baltimore, MD 21218.

Abraham Domb, Nova Pharmaceutical Corporation, 6200 Freeport Centre, Baltimore, MD 21224.

POSTDOCTORAL POSITION. In lipoprotein biochemistry and genetics under the direction of Dr. John VandeBerg. The successful candidate will collaborate in multidisciplinary research programs involving human subjects and a colony of 3200 pedigreed baboons. Salary ranges from \$21,694, with consideration for prior relative postdoctoral experience. Send curriculum vitae and the names, addresses, and telephone numbers of three references to: **Personnel Director (057), Southwest Foundation for Biomedical Research, P.O. Box 28147, San Antonio, TX 78228-0147. An Equal Opportunity Employer, M/F.**

POSTDOCTORAL TRAINING IN CLINICAL CHEMISTRY. Position available 1 July 1991, for basic scientist or physician interested in a career as laboratory director in academic laboratory medicine. Our 2-year program provides practical experience in clinical chemistry laboratories and extends relevant basic scientific knowledge.

Deadline: 1 December 1990. Write to:

**Margaret Kenny, Ph.D., Program Director
Department of Laboratory Medicine, SB-10
University of Washington
Seattle, WA 98195**

An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION. Brookdale Center for Molecular Biology, Mount Sinai School of Medicine. A postdoctoral position is available immediately for a Ph.D. or M.D. with background in molecular biology, immunology, or electrophysiology and an interest in ion channels, excitation-contraction coupling, cell differentiation, and T cell activation. We have cloned the intracellular calcium release channels in skeletal muscle (ryanodine receptor), smooth muscle (IP3 receptor), and the calcium channel in T cells and MEL cells. Work will focus on functional characterization of these cloned calcium channels in *Xenopus* oocytes and mammalian cell lines. Send curriculum vitae and names of three references to: **Dr. Andrew R. Marks, Brookdale Center for Molecular Biology, Box 1128A, The Mount Sinai School of Medicine, New York, NY 10029-6574. Mount Sinai School of Medicine is an Equal Opportunity/Affirmative Action Employer.**

SCIENCE

can publish YOUR LOGO with your one-column line classified ad. No extra fee is assessed: you will be billed at our regular line rate for the number of lines the logo occupies. For details, call Classified Advertising: 202-326-6555.

POSITIONS OPEN

POSTDOCTORAL POSITION. Available immediately at the University of Pittsburgh to study adeno-associated virus as a eukaryotic viral vector for potential use in human gene therapy. Expertise in recombinant DNA technologies and cell culture is necessary. Send curriculum vitae and three references to: **Dr. Richard Jude Samulski, University of Pittsburgh, Biological Sciences, 269 Crawford Hall, Pittsburgh, PA 15260. Equal Opportunity Employer.**

POSTDOCTORAL POSITION. In the area of drug metabolism. Emphasis will be on the metabolism and hepatotoxicity of volatile anesthetics and related halocarbons. Applicants should have Ph.D. or M.D. with training in pharmacology or biochemistry. Send curriculum vitae and names of three references to: **Max T. Baker, Ph.D., Department of Anesthesia, University of Iowa, Iowa City, IA 52242. The University of Iowa is an Affirmative Action/Equal Opportunity Employer. Minorities and women are encouraged to apply.**

POSTDOCTORAL POSITION

Available for investigations of molecular mechanisms of neurodegenerative diseases. Candidate should have demonstrated expertise in cellular/molecular biology. Our laboratory is committed to studies of molecular biological approaches to understanding the pathogenesis of human neurodegenerative diseases and their animal models. Send curriculum vitae and three letters of recommendation to: **Donald L. Price, M.D., Neuropathology Laboratory, The Johns Hopkins University School of Medicine, 509 Pathology Building, 600 North Wolfe Street, Baltimore, MD 21205-2182. Affirmative Action/Equal Opportunity Employer. Because of funding requirements, applicants limited to U.S. citizens/permanent residents.**

POSTDOCTORAL FELLOW. Position available immediately to investigate transport mechanisms for electrolytes and nutrients in human small intestine. A Ph.D. degree with solid background in biochemistry and experience in membrane and molecular biology techniques required. Salary: \$25,000 to \$30,000 depending on experience. Send curriculum vitae and names of three references to: **Dr. K. Ramaswamy, GI Section, 111C, Veterans Administration Medical Center, 5000 West National Avenue, Milwaukee, WI 53295. Equal Opportunity/Affirmative Action Employer, M/F/H.**

POSTDOCTORAL FELLOWSHIP. Molecular characterization of energy-dependent transport of folates and the role of related classes of membrane folate binding proteins. A component of NCI training grant-funded Cancer Biology Research Program of Virginia Commonwealth University's Massey Cancer Center, an Equal Opportunity Employer. Women and minorities are encouraged to apply. Contact: **Dr. David Goldman, Director, Medical College of Virginia Box 230, Richmond, VA 23298.**

POSTDOCTORAL FELLOWSHIP. In molecular and cellular immunology basis of monokine aberrations in immunosuppressed trauma patients. Advanced formal training in interactive immunology program, including seminars, laboratory work, PCR-based study. Tissue culture and some molecular biology experience required. Send curriculum vitae and three letters of recommendation to: **Dr. Carol Miller-Graziano, Division of Research, University of Massachusetts Medical Center, 55 Lake Avenue, North, Worcester, MA 01655. Telephone: 508-856-2387. Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL FELLOW IN IMMUNOTHERAPY OF CANCER AND BIOTECHNOLOGY

We are seeking a candidate with experience in molecular biology to engineer novel human X mouse chimeric antibodies for use in the immunotherapy of human cancer. Approaches that emphasize antibody-directed targeting of killer cells to tumors is favored and animal models (SCID mice). Hybridomas against T cells, tumors, and the NK receptor are available. The successful applicant will interact with an integrated team of basic scientists (Roder, Hozumi, Schulman) and clinicians (Gallinger, Stern) to bring successful products to clinical trial. Salary: \$28,000. Contact: **Dr. N. Hozumi, Division of Molecular Immunology and Neurobiology, Samuel Lunenfeld Research Institute, Mount Sinai Hospital, 600 University Avenue, Toronto, Ontario, Canada M5G 1X5.**

POSITIONS OPEN

THE UNIVERSITY OF AUCKLAND NEW ZEALAND AUCKLAND UNISERVICES LTD. RESEARCH FELLOWSHIP RADIOSENSITIZER DEVELOPMENT

A research fellowship is offered by Auckland UniServices Ltd. (the commercial arm of the University of Auckland) from 1 November 1990 as part of a National Cancer Institute (USA) contract for the development of new radiosensitizers for use in cancer therapy. Responsibilities will include biological evaluation of new radiosensitizers in a multidisciplinary group within the School of Medicine under the direction of Dr. William R. Wilson and Professor William A. Denny. The position provides scope for mechanistic studies with new classes of radiosensitizers and will involve supervision of technical staff.

Salary up to NZ\$43,160 (approximately £14,500 or US\$27,000) per annum plus a relocation allowance for the successful candidate and dependents. For further information, contact: **Dr. Wilson, telephone: 64-9-797-440, ext. 6283, FAX: 64-9-793 279.**

Conditions of Appointment and Method of Application are available from: **Appointments (38571), Association of Commonwealth Universities, 36 Gordon Square, London WC1H 0PE, England, or from: The Assistant Registrar, Academic Appointments, University of Auckland, Private Bag, Auckland, New Zealand (telephone: 64-9-737-757) or Dr. Wilson.**

Applications, quoting Vacancy UNS-1, should be forwarded as soon as possible to: **The Registrar, University of Auckland.**

The University of Auckland and Auckland UniServices Ltd. are Equal Employment Opportunity Employers.

CLINICAL CHEMISTRY POSTDOCTORAL FELLOWSHIP. The Department of Pathology, University of Louisville, has an active 2-year training program in clinical chemistry and toxicology emphasizing both clinical training and active involvement in research. It is an integral part of the pathology residency training and is affiliated with faculty from pathology, biochemistry, and pharmacology/toxicology. Candidates should have Ph.D. and/or M.D. degree(s) and possess outstanding credentials and strong motivation. Interested individuals should contact: **Dr. Roland Valdes, Jr., Program Director, Department of Pathology, School of Medicine, University of Louisville, Louisville, KY 40292. Equal Opportunity Employer.**

POSTDOCTORAL RESEARCH ASSOCIATES

Three positions available from January 1991 for a 2-year period in a bioremediation research program jointly with EPA's Gulf Breeze Environmental Research Laboratory (project officer: Dr. Peter J. Chapman). The program involves research in microbiology, biochemistry, and genetics of biodegradation processes and their application in the development of biological systems for treating hazardous organic chemical wastes. The biodegradation studies will deal with fossil fuel-related chemical wastes, chlorinated solvents, halogenated aromatic chemicals, PCBs and related compounds, and aromatic hydrocarbons. Candidates should possess a Ph.D. or equivalent in microbiology or relevant discipline with appropriate background and experience. Annual salary: \$24,000 to \$26,470 plus benefits. Application deadline: 31 December 1990. Applicants should submit curriculum vitae with a list of publications, a statement of research interests, and names of three references to: **Dr. K. Ranga Rao, Center for Environmental Diagnostics and Bioremediation, Building 58, University of West Florida, Pensacola, FL 32514-5751. An Equal Opportunity/Affirmative Action Employer.**

ASSOCIATE/POSTDOCTORAL POSITIONS

Applications are invited for postdoctoral positions as associates to work in the laboratory of Dr. H. Kim Bottomly. The primary areas of study will be molecular biology analysis of the role of CD45 in T cell activation. Qualified candidates should possess an M.D. or Ph.D. in a relevant discipline and have strong experience in molecular biological techniques. Please forward curriculum vitae and three letters of recommendation to: **Dr. H. Kim Bottomly, Howard Hughes Medical Institute, Yale University Medical School, 310 Cedar Street, FMB 410, New Haven, CT 06510. We are an Equal Opportunity Employer.**

Postdoctoral Researcher

Immunology

Genentech, Inc., a leader in the field of biotechnology, has an excellent opportunity for a Postdoctoral Researcher in our Immunology department.

You will study down-regulation of inflammatory responses. Requires a strong background in cellular immunology. Some experience in molecular biology and/or in vivo models of inflammatory disease is desirable.

Genentech, Inc. offers an excellent salary and benefits package coupled with the opportunity to make a significant contribution to our organization. For consideration, please send your resume to Yvonne Davino, Genentech, Inc., Dept. PJ, 460 Point San Bruno Blvd., South San Francisco, CA 94080. We actively support and promote affirmative action and equal employment opportunity. Women and minorities are encouraged to apply.

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POST DOCTORAL FELLOW

MOLECULAR BIOLOGY

NOVA PHARMACEUTICAL CORPORATION, a leading Research & Development company in Baltimore, Maryland, is funding a postdoctoral fellow to work in the laboratory of Cell Biology, National Institute of Mental Health, located in Bethesda, Maryland. The projects will involve receptor cloning.

The ideal candidate will have a Ph.D. in molecular biology or a related discipline, preferably with experience in the molecular biology of receptors, and 0-2 years of postdoctoral experience. This position will be for 1 year, with the option of an additional year upon mutual approval of all concerned.

NOVA PHARMACEUTICAL CORPORATION offers a competitive salary and benefits package which includes company-paid health, life and dental insurance; profit sharing and 401(k) plan. For immediate consideration, please send your resume along with a brief statement of research experience and interests and the names of three references to: Nova Pharmaceutical Corp., Personnel-90-028, 6200 Freeport Centre, Baltimore, MD 21224. Nova is an equal opportunity employer.



Join Wyeth-Ayerst Laboratories, one of the world's largest pharmaceutical research and development groups. Now is your opportunity to become an integral member of our fast-paced, innovative team at our modern research facility in Princeton, New Jersey.

RESEARCH SCIENTISTS

Cellular Electrophysiologist Postdoctoral Fellow

Study the regulation and pharmacological modulation of potassium channels in airway smooth muscle using whole-cell and single channel voltage clamp techniques and work with collaborating academic investigators expert in the field of airway smooth muscle electrophysiology. Ideal candidate will have a recent Ph.D. in Physiology, Pharmacology or Biophysics, and working knowledge of smooth muscle physiology. Familiarity with measurements of internal calcium levels using fluorescent indicator dyes is useful.

Biochemistry - Postdoctoral Fellow

Study the role of nucleotide phosphodiesterases as regulators of cellular reactivity, and as potential pharmacologic targets. Will be responsible for establishing novel methodologies to purify and characterize individual phosphodiesterase isozymes from various cell sources, and to investigate their physiological roles. A Ph.D. in Biochemistry or a related field is required, with experience in enzyme purification and kinetic enzyme analysis. Experience in cellular mechanisms of enzyme regulation, radioligand binding assays and protein purification via HPLC are desirable.

SENIOR PHARMACOLOGIST Cardiovascular Pharmacology BS/MS

Perform in vitro renal function studies using renal tubules, membrane receptor binding assay, and fluorometric determination of intracellular ions in cultured cells. Requirements include a BS/MS in a Biological or Biochemical discipline with 4-10 years related experience which should include microdissection, cell culture, membrane transport studies and biochemical assays.

We offer an excellent salary and benefits package plus opportunities for career advancement. Interested candidates should submit their curriculum vitae and salary requirements, stating position of interest, to: **WYETH-AYERST RESEARCH, Personnel Manager, CN 8000, Princeton, NJ 08643-8000.** An equal opportunity employer, M/F/H/V.



POSITIONS OPEN

The University of Georgia Complex Carbohydrate Research Center seeks **POSTDOCTORAL RESEARCH ASSOCIATES** and **STAFF SCIENTISTS** to work on structural, functional, and recombinant genetics studies of plant cell wall carbohydrates and the genes and proteins associated with them. For staff scientists, B.S. required, M.S. preferred in chemistry, biochemistry, or molecular biology. Three openings available. Salary depends on experience. Applications reviewed after 1 December 1990. Send letter of application and curriculum vitae to: **Drs. Alan Davill or Peter Albersheim, Complex Carbohydrate Research Center, University of Georgia, 220 Riverbend Road, Athens, GA 30602. An Affirmative Action/Equal Opportunity Institution.**

RESEARCH ASSOCIATE in the field of magnetism and solid-state physics to conduct research on hard magnetic materials and magnetic thin films; set up Kerr effect experiment and use it to study magneto-optic materials. Requires Ph.D. in magnetism and solid-state physics with demonstrated expertise in the magneto-optical research; 40 hours per week; 9 a.m. to 5 p.m.; \$22,000 per year. Respond by résumé only to: **David A. Lann, 3301 Lancaster Avenue, Wilmington, DE 19805, Job Order #DE804118.**

RESEARCH ASSOCIATE. Position to study nature of resistance to and pathogenesis of wheat soil-borne mosaic virus in hard red winter wheat. Candidate must have Ph.D. in plant pathology or related area with experience in molecular and traditional techniques to study host-pathogen interaction. Send curriculum vitae and three letters of recommendation. Applications accepted until 16 November 1990 or until a suitable candidate is found. Contact: **John L. Sherwood or Robert M. Hunger, Department of Plant Pathology, Oklahoma State University, Stillwater, OK 74078. Affirmative Action/Equal Opportunity Employer.**

University of California, Irvine (UCI), College of Medicine, Obstetrics and Gynecology, **ASSISTANT RESEARCHER** (Ph.D.) in Division of Reproductive Endocrinology and Infertility. Extensive experience in tissue culture, micromanipulation of mammalian oocytes/embryos, and andrology. UCI is an Equal Opportunity/Affirmative Action Employer. Send curriculum vitae and five references to: **Thomas J. Garite, M.D., Professor and Chairman, Department of Obstetrics and Gynecology, UCI Medical Center, 101 The City Drive, Orange, CA 92668.**

RESEARCH ASSOCIATE. Available immediately for a talented scientist with experience in macromolecular x-ray structure determination. Projects include two members of the annexin family (calcium-dependent regulators of vesicle fusion), fibroblast growth factor and tumor necrosis factor/receptor interactions, and the GTP-regulated β -adrenergic transduction protein, Gs α . Excellent x-ray data collection, computing facilities and a highly interactive academic environment. *An Equal Opportunity Employer.* Send curriculum vitae and names of three references to: **Dr. Stephen Sprang, Howard Hughes Medical Institute, 5323 Harry Hines Boulevard, Dallas, TX 75235-9050. Telephone: 214-689-5008. Bitnet: SPRANG@UTSW.**

RESEARCH ASSISTANT

The Hemopoietic Stem Cell Processing and Research Laboratory at Hudson Valley Blood Services, a division of the New York Blood Center, invites applications for a research assistant with interests in the clinical and laboratory aspects of bone marrow transplantation. Responsibilities include an initial emphasis on peripheral blood stem cell and bone marrow processing and storage, as well as clonogenic and flow cytometric analyses. M.S., Ph.D., and/or related experience would be preferred. If you demonstrate exceptional skills, we can offer you an opportunity for growth. Qualified candidates should call 914-592-6533 or 212-468-2151 or send résumé including salary history and requirements to: **Hudson Valley Blood Services, KE/Human Resources, Grasslands Reservation, Valhalla, NY 10595. Equal Opportunity Employer, M/F.**

HUDSON VALLEY BLOOD SERVICES

A division of the
New York Blood Center

POSITIONS OPEN

ASSOCIATE RESEARCH SCIENTIST/ POSTDOCTORAL RESEARCH SCIENTIST

Position available immediately to study molecular aspects of radiation effects in yeast and human systems. Candidate should have a Ph.D. in molecular biology, biochemistry, genetics, or related field and, preferably, have experience with recombinant DNA techniques. Send curriculum vitae and the names of three references to: **Dr. Howard Lieberman, Center for Radiological Research, Columbia University College of Physicians and Surgeons, 630 West 168th Street, New York, NY 10032. We are an Equal Opportunity/Affirmative Action Employer.**

ASSOCIATE RESEARCH SCIENTIST COLUMBIA UNIVERSITY

Department of Surgery currently has position available for associate research scientist to collaborate on studies associated with immunologic tolerance. Skills required include histopathology, immunohistochemistry, HPLC, virus cloning, DNA techniques, statistics, and the preparation of scientific publications. Qualified applicants must possess Ph.D. in related science field and a minimum of 5 to 7 years of professional work experience.

To apply, send curriculum vitae with salary history to:

**Department of Surgery
Columbia University
630 West 168th Street
New York, NY 10032
Attention: Matt Baney**

Columbia University takes Affirmative Action toward Equal Opportunity.

RESEARCH ASSOCIATE IN CARBOHYDRATE BIOCHEMISTRY

The University of Georgia Complex Carbohydrate Research Center seeks a staff chemist/biochemist interested in dividing his/her time between active participation in research on the structural characterization of plant cell wall polysaccharides and analytical service work conducted on carbohydrate samples submitted to the CCRC by other investigators. Ph.D. desired in chemistry or biochemistry or an equivalent combination of education and experience. Experience with one or more of the following techniques required: GC, GC-MS, LC, NMR spectroscopy. Salary depends on experience. Position available immediately; applications will be reviewed after 16 November 1990. Please send curriculum vitae and letter of application to: **Drs. Alan Davill or Russell W. Carlson, Complex Carbohydrate Research Center, The University of Georgia, 220 Riverbend Road, Athens, GA 30602. An Equal Opportunity/Affirmative Action Institution.**

RESEARCH SCIENTIST. Full-time, tenure-track faculty position in the Department of Medicine, Section of Rheumatology, Louisiana State University School of Medicine (LSUMC) in New Orleans, for a wet bench investigator with demonstrated productivity in immunologic/rheumatologic research. Candidates must have a doctoral degree and an independent research program and should work in collaboration with LSU academic rheumatologists in designing and doing research studies. Send curriculum vitae or request for further information to: **Wendell A. Wilson, M.D., Acting Chief, Section of Rheumatology, 1542 Tulane Avenue, New Orleans, LA 70112. LSUMC is an Equal Opportunity/Affirmative Action Employer.**

SENIOR RESEARCH PHARMACOLOGIST

NOVA Pharmaceutical Corporation, a leading research and development company in Baltimore, Maryland, seeks a senior research pharmacologist to test drugs, through behavioral studies in animal models, which may be therapeutic candidates to treat CNS diseases such as psychosis and ischemia. Qualified candidates will possess a B.S. and/or M.S. in psychology, biology, or other life science and previous laboratory experience in behavioral testing.

NOVA Pharmaceutical Corporation offers a competitive salary and benefits package which includes company-paid health, life, and dental insurance; profit sharing; 401(k) plan; 100% tuition reimbursement; and free parking. For immediate consideration, please send your résumé with salary history to: **NOVA Pharmaceutical Corporation, Personnel-90-096, 6200 Freeport Centre, Baltimore, MD 21224. NOVA is an Equal Opportunity Employer offering a smoke-free work environment.**

POSITIONS OPEN

RESEARCH ASSOCIATE. Researcher will carry out independent research using techniques in carbohydrate/protein chemistry/biochemistry to study membrane glycoprotein purification, analysis, biochemistry, and carbohydrate recognition and modification, and supervise technicians. Ph.D. with ability in handling glycoproteins, lectins, tissue cultures, and training in physical and chemical techniques such as immunochemistry, glycoprotein characterization and chemistry, use of spectroscopic methods (UV, IR, NMR, and fluorescence), HPLC, ultracentrifugation, etc., required. Good communicating skills essential. Salary: \$22,500 per year. *Proof of legal right to work in the United States must be provided. Job Order # 9024.* To apply, mail two copies of ad attached to: **Department of Employment Services, 500 C Street, N.W., Room 325, Washington, DC 20001.**

RESEARCH POSITION IN ACADEMIC DEPARTMENT OF PATHOLOGY. The Department of Pathology at Stanford University School of Medicine seeks candidates for appointment at the level of **ASSISTANT OR ASSOCIATE PROFESSOR.** Individuals must have an established record of scholarly productivity with scientific articles in peer-reviewed journals and evidence that these articles reflect significant contributions of the candidates in the design and conduct of the studies. There also must be proof of scientific independence and the ability to obtain research funding. Of special interest are candidates with established credentials in the area of molecular biology including as it relates to clinical medicine. Preference will be given to individuals who can contribute to clinical service obligations, particularly in clinical pathology. Applicants should send their curriculum vitae and names of references to: **Klaus G. Bensch, M.D., Professor and Chairman, Department of Pathology, Stanford University Medical School, Stanford University Medical Center, Stanford, CA 94305. Stanford University is committed to increasing representation of women and members of minority groups on its faculty and particularly encourages applications from such candidates.**

We seek a **BASIC SCIENTIST** who uses in vitro physiology and biochemical methods to study novel compounds that might prevent ischemic cell death in the hippocampus. Current federal funding is a necessity. Experience with intracellular physiology and quantitative electron microscopy is desirable. Send curriculum vitae and the names of three references to: **William B. Levy, Director of Neurosurgery Research Laboratories, University of Virginia, Health Sciences Center, Box 420, Charlottesville, VA 22908.**

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

REPRODUCTIVE BIOLOGISTS LOEB MEDICAL RESEARCH INSTITUTE OTTAWA CIVIC HOSPITAL

The Ottawa Civic Hospital is dedicated to the provision of quality patient care, which is supported and enhanced by an environment of academic and research excellence. The Loeb Medical Research Institute is a research center of the Ottawa Civic Hospital with integrated thematic research foci in reproductive biology, endocrinology, and neurobiology. Two positions are now available for reproductive biologists.

The successful candidates will be members of a reproductive biology research team and expected to conduct independent, peer-review, funded research programs. Applicants should possess a doctorate degree and a minimum of 3 years of postgraduate training. Experience in the area of extracellular matrix remodeling or molecular biology will be an asset. The selected candidates will be eligible for faculty appointments in the Department of Obstetrics and Gynecology and in an appropriate basic science department at the University of Ottawa. Rank and salary are commensurate with qualifications. Submit curriculum vitae, a statement of research aims and interests, and names and addresses of three references by 1 January 1991 to: **Dr. Benjamin Tsang, Professor of Obstetrics and Gynecology and Director, Reproductive Biology Unit, Loeb Medical Research Institute, Ottawa Civic Hospital, 1053 Carling Avenue, Ottawa, Ontario, Canada K1Y 4E9. FAX: 613-761-9151. Telephone: 613-761-4081. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada.**

**National Institute of Diabetes and
Digestive and Kidney Diseases**

**Public Health Service
National Institutes of Health**

**Clinical Endocrinology Branch
Division of Intramural Research**

Postdoctoral Position.

Available immediately to investigate the role of tissue-specific gene regulation in early vertebrate development. The applicant should have a recent Ph.D. and/or M.D. A background in biochemistry, molecular biology, or developmental biology desired. Send curriculum vitae and addresses of three references to :

**Dr. Sheryl M. Sato
NIDDK, CEB
National Institutes of Health
Building 10, Room 8N322
9000 Rockville Pike
Bethesda, MD 20892**



U.S. Citizenship is not required
NIH is an Equal Opportunity Employer

Research Biochemist

Syntex Corporation is a leading international health care company with over 9,000 employees who research, develop, manufacture and market a wide range of pharmaceutical and diagnostic products. Our Group Technology Center is made up of scientists brought to Boulder from Syntex sites around the world. We are currently seeking a Research Biochemist to join the biotechnology team in the Technology Center. This position is responsible for the design and execution of experiments in microbial genetics and microbial physiology as part of a bioprocess development group.

The successful candidate will have a MS degree and 5 to 10 years experience in microbial genetics, microbial physiology, and/or biochemistry. Experience in working with a variety of microorganisms as well as supervision of technical personnel is desirable.

Syntex offers a complete benefits package, competitive salaries and bonus eligibility. If you meet these qualifications and are interested in a challenging opportunity, please send your resume in confidence to: **Barbara Kazmier, Syntex Chemicals, Inc., 2075 N. 55th St., Boulder, CO 80301.** Syntex is an equal opportunity employer.



GRADUATE PROGRAM CELL AND MOLECULAR BIOLOGY (MULTI-DEPARTMENTAL)

- GENE REGULATION
- MOLECULAR GENETICS
- DEVELOPMENTAL BIOLOGY
- ONCOGENES AND GROWTH FACTORS
- STRUCTURAL BIOLOGY
- NEUROBIOLOGY
- MOLECULAR VIROLOGY AND IMMUNOLOGY

The Graduate School at BAYLOR COLLEGE OF MEDICINE has recently created a graduate program in CELL AND MOLECULAR BIOLOGY stressing basic research in the above areas. Students accepted for studies leading to the Ph.D. degree will receive financial support. For further information contact:

**Dr. Savio Woo, Director
Graduate Program in Cell and Molecular Biology
Baylor College of Medicine, Room 185A
One Baylor Plaza
Houston, Texas 77030
Phone: (713) 798-6557**

POSTDOCTORAL SCIENTIST

ANTI-INFECTIVES

SmithKline Beecham, a worldwide leader in pharmaceutical research, has a challenging opportunity for two postdoctoral scientists to join its Anti-Infectives Department. The successful candidates will investigate the mechanism of action of a novel hematopoietic cytokine and biochemically purify the cytokine, isolate the gene and molecularly express the recombinant protein.

Qualified candidates will have a Ph.D. or M.D. in a biological, biochemical, or molecular science or related area. In addition, he/she will have 0-2 years of postdoctoral research experience.

Our state-of-the-art research facility is located in suburban Philadelphia near Valley Forge, PA. We offer a competitive compensation/benefits/relocation package as well as the opportunity for growth in a scientifically intense environment structured on creativity, teamwork and commitment. Please send your C.V. and the names of three references to: Nancy Hasson, Employment Administrator, H0159A, SmithKline Beecham Pharmaceuticals, P.O. Box 1539, King of Prussia, PA 19406-0939. We are an Equal Opportunity Employer, M/F/H/V.



SmithKline Beecham
Pharmaceuticals

POSITIONS OPEN

SENIOR RESEARCH IMMUNOLOGIST. Ph.D./M.D. immunologist with experience in either bacteriology or virology. Industrial research experience or equivalent preferred. *Univac Biologics is an Equal Opportunity Employer* offering a competitive benefits and salary package. Qualified candidates should send curriculum vitae and references to: **Univac Biologics Inc., 12111 Parklawn Drive, Rockville, MD 20852.**

CALIFORNIA INSTITUTE OF BIOLOGICAL RESEARCH (CIBR)

We are seeking a staff appointee to direct his or her own laboratory at this nonprofit private institute. The research program may be in any area of medically oriented biology. Primary consideration will be given to excellence in research and the ability to obtain funding. Laboratory space, start-up funding, and continuing grant subsidies are exceptionally generous. If you are energetic and want the freedom to pursue your ideas in the company of enthusiastic colleagues, this is the place for you! Write or call: **Michael McClelland, CIBR, 11099 North Torrey Pines Road, La Jolla, CA 92037. Telephone: 619-535-5486.**

HEMOSTASIS

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TOOLS FOR A NEW BIOLOGY. A 1-week **COURSE** (6 to 11 January 1991) focusing on an integrated, multidisciplinary approach to the development of procedures for the separation, detection, and microcharacterization of complex mixtures of proteins and nucleic acids. Includes the role of novel computer hardware/software in the analysis of biological data. Sponsored by the NSF Center for Molecular Biotechnology. Director: Leroy Hood. For information, contact: **Karen Thompson, Caltech, Division of Biology, 139-74, Pasadena, CA 91125. Telephone: 818-397-2765. FAX: 818-793-4627.**

PREDOCTORAL INTERDISCIPLINARY PROGRAM CELL STRUCTURE AND FUNCTION IN HEALTH AND DISEASE

The University of Florida has initiated a new program providing well-qualified graduate students with a broad spectrum of research opportunities in cell structure and function tailored to the specific needs of each student. Faculty interests are diverse and include developmental and regulatory biology, intracellular targeting, cytoskeleton, signal transduction, immunobiology, cancer biology, and the mechanism of viral infection. The student will receive a Ph.D. degree jointly through a basic sciences department and the Interdisciplinary Program. Competitive stipends are offered by the program. For further information contact: **Dr. Carl Feldherr, Department of Anatomy and Cell Biology, College of Medicine, University of Florida, Gainesville, FL 32610-0235.**

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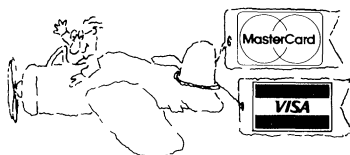
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For further information, contact:

Bonnie Cuthbert
Department of Cell Biology
Baylor College of Medicine
Telephone: 713-798-6200
Deadline: 4 February 1991

THE JAMES S. McDONNELL FOUNDATION SUMMER INSTITUTE IN COGNITIVE NEUROSCIENCE. The 1991 Summer Institute will be held at Dartmouth College, 1 to 12 July. The 2-week course will examine how information about the brain bears on issues in cognitive science and how approaches in cognitive science apply to neuroscience research. A distinguished international faculty will lecture on current topics in attention and emotion, including neurological and psychiatric disorders; laboratories, demonstrations, and videotapes will offer practical experience with cognitive neuropsychology experiments, connectionist and computational modeling, and neuroanatomy. At every stage, the relationship between cognitive issues and underlying neural circuits will be explored. The institute directors will be **Michael I. Posner, David L. LaBerge, Joseph E. LeDoux, Michael S. Gazzaniga, and Gordon M. Shepherd.** The foundation is providing limited support for travel expenses and room and board. Applications are invited from beginning and established researchers, and must be received by 11 January 1991. For further information please write to: **McDonnell Summer Institute in Cognitive Neuroscience, HB7915-A, Dartmouth Medical School, Hanover, NH 03756.**



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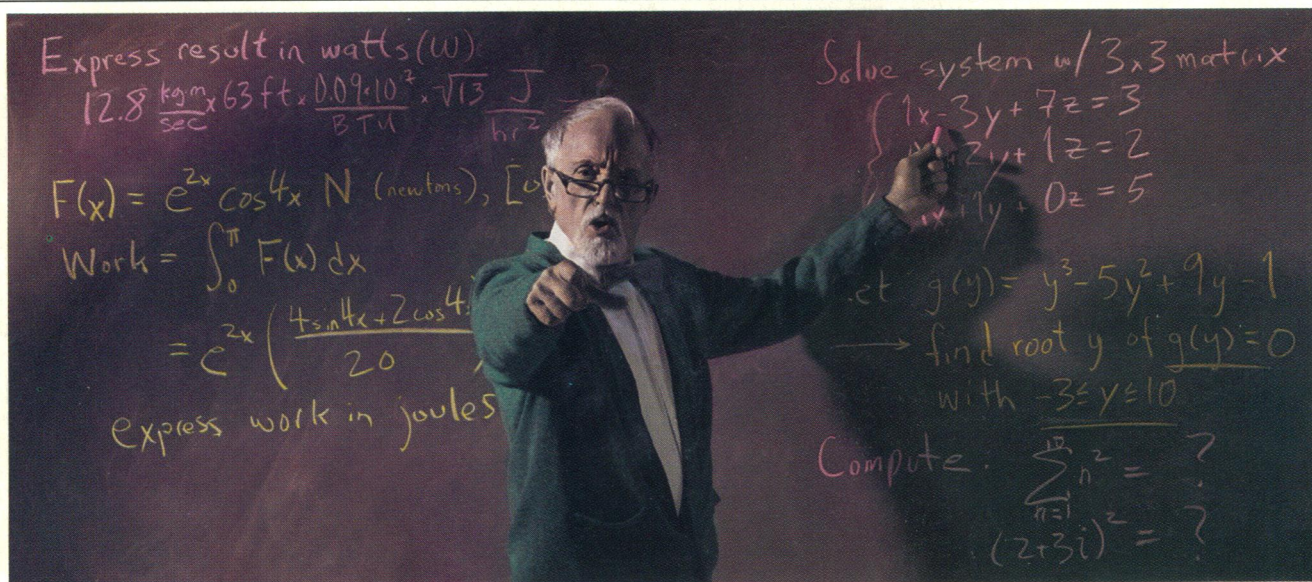
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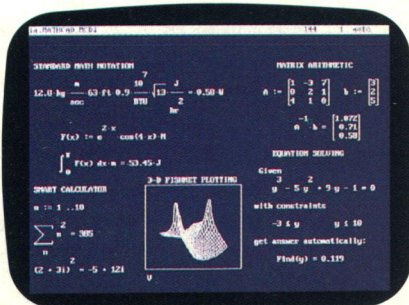
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