PRODUCTS & MATERIALS

CO₂ Incubator

This CO₂ incubator offers reliable long-term cell culture conditions: Temperatures up to 50°C can be set as required, humidity is maintained constant at 97%, and homogeneous CO₂ is guaranteed. All functions are monitored by computer and any deviations such as power failure are indicated immediately. The CO₂ sensor is encapsulated into a contamination-safe unit that is as easy to remove as the other slide-



in units. Instead of relying on conventional heating coils in a double mantle, heat is transferred to the outside of the incubation compartment by heating elements with a large surface area. Integra Biosciences. Circle 140.

Eukaryotic Expression System

The Pichia Expression Kit harnesses the power of the methylotrophic yeast Pichia pastoris to express recombinant proteins that undergo posttranslational modifications similar to those associated with higher eukaryotes. The kit contains vectors for intracellular and secreted expression, reagents for the preparation and transformation of yeast spheroplasts, P. pastoris strains, and controls. Invitrogen. Circle 141.

Messenger RNA Kit

The Dynabeads mRNA DIRECT Kit can isolate highly purified, intact mRNA directly from crude cell and tissue samples in 15 min. The kit includes monodisperse superparamagnetic Dynabeads

Oligo (dT)₂₅, which eliminates the need for spin columns, filtration, organic reagents, and ethanol precipitation. The purified mRNA can be used directly in various applications, including solid phase cDNA library, S1 nuclease analysis, ribonuclease protection, primer extension, dot and slot hybridization, in vitro translation, subtractive hybridization, and Northern (RNA) blotting. **Dynal. Circle 142.**

DNA and RNA Blot and Immunoblot Detection

The UltraLume GeneBlot Detection System is designed for membrane-based nucleic acid analyses including Northern (RNA), Southern (DNA), and slot blots. The chemiluminescent detection system provides sensitivity approaching that of radioactive methods, detecting less than 1 pg of target nucleic acid with negligible background. The Ultra-Lume ImmunoBlot Detection System for chemiluminescent detection of human, mouse, or rabbit antibodies in protein immunoblots or dot blots also provides sensitivity approaching that of radioactive methods—detecting as little as 10 pg of human immunoglobulin G. Both systems significantly reduce environmental, health, and shelf-life concerns, compared with isotopic methods. BioGenex. Circle 143.

Filter System

A scalable DMF dynamic membrane filter system for cell and cell debris separation represents an advance in the field of cross flow or tangential flow systems designed to filter process streams without fouling of the filter medium. The DMF System has demonstrated protein recovery rates from

Escherichia coli lysate in the high 90% range in the filtrate. This rate of valuable product recovery can provide outstanding economic advantages compared with conventional separation systems. The system operates by creating shear forces at the membrane surface, which tend to lift contami-



nants away and prevent penetration of the medium. Unlike cross flow filters, in dynamic filtration the liquid shear forces can be increased independent of the flow rate through the membrane. The laboratory scale DMF System is directly scalable to pilot and production levels. Pall. Circle 144.

Active Ribozyme Transcription

The polymerase formulations in AmpliScribe SP6, T7, and T3 Transcription Kits are designed for high-yield synthesis of RNAs ranging in size from many kilobases to as small as 25 nucleotides. The ability to synthesize small RNAs is of particular interest to researchers studying ribozyme structure and function. The T7 kit enables the synthesis of up to 150 µg of active ribozyme

in a two-hour reaction containing 0.25 µg of linearized plasmid as a template. Oligonucleotides carrying both the ribozyme gene and T7 promoter sequences give good yields of active ribozyme when used as templates. Epicentre Technologies. Circle145.

Literature

HPLC Temperature Control Systems is a brochure on a full line of Eppendorf high-performance liquid chromatography (HPLC) column heaters and controllers. Column heaters reduce system wear and separation time, while increasing peak resolution and detection sensitivity. Phenomenex. Circle 146.

The Ultimate Glassware for Membrane Filtration is a catalog that presents a complete line of filtration apparatus. **Kontes. Circle 147.**

MAXline at Work: A Reference Guide to Microassay Applications is a 70-page booklet that provides a sampling of recent articles on the use of these methods in cell biology, pharmacology, biochemistry, and entomology. Molecular Devices. Circle 148.

Catalogue of Protists, 18th Edition, 1993 includes 88 new strains for a total of 1210 strains. Thirty-four new genera are now available, including 19 heterotrophic flagellate genera and nine ciliate genera. A representative of the genus Pneumocystis, P. carinii, which has been the focus of considerable research because of its role as an opportunistic pathogen in AIDS patients, has been added. American Type Culture Collection. Circle 149.

Sample Preparation for Confocal Laser Scanning Microscopy: Special Considerations, Labeling Microtubules, Staining Nucleic Acids with Propidium Iodide, and Nonspecific Fluorescent Staining of Biomedical Specimens with Lucifer Yellow are four new application notes. Molecular Dynamics. Circle 150.

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.

SCIENCE

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POSITIONS OPEN

The Department of Biochemistry, Duke University Medical Center, invites applications for one or two faculty positions (ASSISTANT, ASSOCIATE or FULL PROFESSOR) in the area of structural biology. Duke University is in the process of building the Levine Science Resource Center that will house new X-ray and NMR facilities. The candidates will be expected to establish strong, independent research programs and to participate in departmental teaching. Send résumé, sum-mary of research interest and three letters of reference to: mary of research interest and three letters of reference to: Christian R. H. Raetz, Department of Biochemistry, Duke University Medical Center, Durham, NC 27710. Duke University is an Equal Opportunity/Affirma-tive Action Employer. Consideration of applications will commence in January 1994.

ASSISTANT PROFESSOR: Harvard Medical School, Department of Biological Chemistry and Molecular Pharmacology (BCMP).

The Department of Biological Chemistry and Molecular Pharmacology invite applications for one tenure-track position at the Assistant Professor level.

We seek individuals in the broad area of PNA extractions and the Professor level.

We seek individuals in the broad area of RNA structure and function, including structural approaches by NMR and X-ray, aspects of RNA catalysis, splicing and

molecular recognition.

Applicants should submit, by December 15, 1993, curriculum vitae, bibliography, statement of research plans and arrange for four letters of recommendation to be sent to: Professor Christopher T. Walsh, BCMP, Harvard Medical School, 240 Longwood Avenue, C1-213, Boston, MA 02115.

Harvard University is an Equal Opportunity/Affirmative Action Employer and encourages the applications of qualified women and minorities.

Medical University of South Carolina (MUSC) ASSISTANT PROFESSOR— MOLECULAR BIOLOGIST

The retinal-biochemistry group of the Vision Research Division of the Ophthalmology Department is inviting applications for a tenure-track Assistant Professor posiapplications of a tenticetack resistant rhossof posi-tion available immediately. Candidates should have a Ph.D. or Ph.D./M.D., postdoctoral training, demon-strated excellence in research, and a desire to collaborate with both basic scientists and clinicians. The successful candidate will join the research program in rhodopsin structure and function, interact with other ongoing projects on vision research and develop independent funding. Please send curriculum vitae and references to: Rosalie K. Crouch, Ph.D., Department of Ophthal-mology, Medical University of South Carolina, 171 Ashley Avenue, Charleston, SC 29425–2236. MUSC is an Equal Opportunity Employer and encourages applications from women and minorities.

ELECTROPHYSIOLOGIST/HISTOCHEMIST with experience in the olfactory system; ASSISTANT or ASSOCIATE PROFESSOR level (non-tenure-track). To join research team. Proven potential to develop an independent research program with extramural funding is expected. Interest in centrifugal olfactory pathways useful, as well as interest in axoplasmic transport. Contact: Dr. Richard L. Doty, Director, Smell and Taste Center, Department of Otorhinolaryngology, Head and Neck Surgery, University of Pennsylvania School of Medicine, 3400 Spruce Street—5 Ravdin, Philadalphia DA 10104 delphia, PA 19104.

ASSISTANT PROFESSOR MOLECULAR AND CELLULAR BIOLOGY

Department of Physiology University of Kansas Medical Center

The Department of Physiology at the University of The Department of Physiology at the University of Kansas Medical Center invites applications for a tenure-track position in Molecular and Cellular Biology. A focus in Reproductive Biology is preferred. We are seeking a person who can establish a strong, independent research program and interact with other members of the faculty. We have an excellent research environment with extensive interactions both within the department and within the Medical School. An excellent salary and laboratory set-up package are available. Candidates should submit a letter of application, curriculum vitae, description of research interests and three letters of reference by January 14, 1994, to: Paul Terranova, Ph.D., Search Committee, Department of Physiology, University of Kansas Medical Center, Kansas City, KS 66160-7401. An Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

MIDDLEBURY COLLEGE, MIDDLEBURY, VT 05753. The Department of Biology invites applica-tions for TWO POSITIONS. One is a one-year term position in VERTEBRATE FIELD BIOLOGY/ENvironmental studies beginning September 1994. Candidates should be able to teach Vertebrate Field Biology, all or part of an introductory course in Evolution and Genetics, and a senior course on Environmental Policy Formation. The other is a tenure-track position in FIELD BOTANY beginning September 1995. Candidates should be able to teach in Introductory Ecology, all or part of an introductory course in Evolution and Genetics, and an upper-level course in Field Botany. Appointments will be made at the rank of beginning ASSISTANT PROFESSOR (Ph.D.) or INSTRUCTOR (ABD). Candidates should provide evil dence of a commitment to teaching excellence and scholarly achievement and of a knowledge of local organisms. Send letter of application, statement of teaching interests, statement of scholarly interests, curriculum vitae, graduate transcripts, and, for the tenure-track position, a sample of scholarly work, to: Randy Landgren, Chairman, Department of Biology, Middlebury College, Middlebury, VT 05753. Three letters of reference should be sent directly by their authors to the same address. Deadline for receipt of applications and all supporting materials is December 24, 1993. Middlebury College is an Equal Opportunity Employer, encouraging applications from women and members of minority groups.

INVERTEBRATE BIOLOGY

ASSISTANT or ASSOCIATE PROFESSOR, fulltime, tenure-track. Responsibilities: A broadly trained invertebrate biologist to teach courses in natural history of invertebrates, terrestrial and freshwater invertebrate biology, and introductory biology. Research involving students encouraged. Salary commensurate with experience and qualifications. Qualifications: Ph.D. in biological sciences with coursework and experience in inverte-brate biology. Teaching and field experience preferred. Excellent communication skills required. Review of applications will begin January 10, 1994, and will continue until the position is filled. Send letter of application, until the position is filled. Send letter of application, statement of teaching philosophy and research interests, curriculum vitae, and three letters of recommendation to: Dr. Norman Leeling, Chair, Search Committee, Department of Biology, Grand Valley State University, Allendale, MI 49401. Equal Employment Opportunity/Affirmative Action/ADA.

NATURAL RESOURCES MANAGEMENT

ASSISTANT or ASSOCIATE PROFESSOR, fulltime, tenure-track. Responsibilities: Teaching course in environmental impact assessment, watershed and wetland management, senior seminars, and others as qualified. Research involving students encouraged. Salary commensurate with experience and qualifications. Qualifications: Ph.D. in natural resources or applied ecology-oriented program with coursework and experience in the area of natural resources management, policy, legislation, area of natural resources management, policy, legislation, and assessment. Teaching and field experience preferred. Excellent communication skills required. Review of applications will begin January 10, 1994, and will continue until the position is filled. Send letter of application, statement of teaching philosophy and research interests, curriculum vitae, and three letters of recommendation to: Dr. Melvin Northup, Chair, Search Committee, Department of Biology, Grand Valley State University, Allendale, MI 49401. Equal Employment Opportunity/ Affirmative Action/ADA.

NEUROSCIENCE AND BEHAVIOR ASSIST-NEUROSCIENCE AND BEHAVIOR ASSIST-ANT PROFESSOR, tenure-track for fall 1994. North-ren Illinois University Psychology Department seeks outstanding scholar and teacher for doctoral and undergraduate program. Research should utilize modern neuroscience methods. Excellent facilities, research space, and rodent colonies. Ph.D. in psychology or closely related area required. Send curriculum vitae, reprints and 3 letters of reference by January 1, 1994, to: J. Willott, Department of Psychology, Northern Illinois University, DeKalb, IL 60115. Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR OF BIOLOGY

The Department of Biology at Loyola College invites applications for an entry-level, tenure-track position to begin fall 1994. Loyola College is a mid-size comprehensive university with a commitment to quality teaching. Applicants should have a Ph.D. and both teaching and research experience. Courses to be taught include a sophomore-level course in genetics, a non-majors course in anatomy and physiology, and any two of the following: invertebrate zoology, comparative physiology or microbiology. Faculty are expected to develop research programs involving undergraduates. Please send curriculum vitae, a statement of teaching and research interests, and names and addresses of three references by January 5, 1994, to: Dr. Donald Keefer, Chairman, Department of Biology, Loyola College, 4501 North Charles Street, Baltimore, MD 21210–2699. Loyola College is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT/ASSOCIATE PROFESSOR

MOLECULAR BIOLOGIST; REGULATION OF GENE EXPRESSION—The Department of Biology, San Francisco State University, invites applications for a tenure-track position in molecular biology anticipated to start fall 1994. A Ph.D. is required and post-doctoral experience is desirable. We seek an individual who has interests in molecular regulation of gene expression. The successful candidate is expected to (i) offer courses in molecular biology and participate in graduate and undergraduate instruction, (ii) establish an independent research program, (iii) supervise M.A. students. We are interested in candidates who are dedicated to excellence in both teaching and research. Send letter of application, curriculum vitae, statement of teaching and research goals and three letters of reference by 15 January 1994 to: Dr. G. A. Antipa, Chair, Hiring Committee, Department of Biology, San Francisco State University, San Francisco, CA 94132. Women, ethnic minorities and persons with disabilities are especially urged to apply. SFSU is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION: PLANT PHYSIOLOGIST—The University of Richmond invites applications for a tenure-track position, preferably at the ASSIST—ANT PROFESSOR level. The primary teaching responsibility will involve undergraduate courses in general biology and plant physiology. In addition, the appointee will be expected to develop other undergraduate and M.S.-level courses in his or her specialty. Development of an active research program that will involve undergraduate and graduate students is expected. Candidates must have the Ph.D. degree, and postdoctoral experience is desirable. Submit curriculum vitae, undergraduate and graduate transcripts, a statement of teaching philosophy, research plans, and three letters of reference to: Dr. F. B. Leftwich, Department of Biology, University of Richmond, VA 23173. Consideration of applications will begin on January 15, 1994, and will continue until the position is filled. The University of Richmond is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minority candidates.

FACULTY POSITION IN PATHOLOGY, DUKE UNIVERSITY

We currently have an opening (which can be filled immediately) for a faculty member (tenure-track) in our department. We are particularly interested in recruiting at the level of ASSISTANT PROFESSOR. This appointment will be for an independent research position that will coordinate with a major departmental research initiative in atherosclerosis and vascular biology. We are particularly interested in recruiting an individual in one of the following areas: adhesion molecules, endothelial cell biology, proteases, matrix proteins, or interactions between proteases and matrix proteins. The individual selected will join our faculty and bring or initiate independent research programs in this area. Excellent working conditions and an attractive salary will be offered. Interested individuals should send curriculum vitae and the names of at least three references to: Dolph O. Adams, M.D., Ph.D., Chair, Search Committee, Department of Pathology, Duke University Medical Center, Box 3712, Durham, NC 27710. Duke University is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

SECONDARY EDUCATION/BIOLOGY POSITION: Tenure-track position at the ASSISTANT PROFESSOR level to begin in August 1994. Primary responsibilities will include teaching two courses in science curricula, teaching methodology, and evaluation; as well as supervising student teachers in several science disciplines. The successful candidate will also teach field biology and courses for non-majors and will be encouraged to engage in scholarly research. An earned doctorate is required but candidates within 18 months of completing their degree will be given consideration on a contingent contract basis. Experience in secondary teaching and/or science supervising is required. Applicants should send curriculum vitae; copies of transcripts (both graduate and undergraduate); a statement of teaching philosophy and research interests; plus the names, addresses and telephone numbers of three references to: Dr. Michael McNichols, Chair, Search Committee, Department of Biology, Shippensburg University, 1871 Old Main Drive, Shippensburg, PA 17257–2299. Receipt deadline for application materials is January 15, 1994

Shippensburg University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

ASSISTANT PROFESSOR OF PHARMACOLOGY AND TOXICOLOGY

The Department of Pharmacology and Toxicology of Rutgers College of Pharmacy and the Environmental and Occupational Health Sciences Institute (EOHSI) are seeking a full-time, tenure-track, Assistant Professor. The candidate should have a Ph.D. in Pharmacology, Toxicology or a related discipline or an M.D., plus appropriate postdoctoral training. The successful applicant should develop an independent research program and participate in departmental teaching functions. A broad range of research areas relevant to the environmental health sciences are under investigation in the EOHSI. A partial listing includes studies of xenobiotic metabolism, the toxicology of benzene, polycyclic aromatic hydrocarbons, nitrosamines, dioxin, dermatotoxicology, environmental toxicology, etc. We are interested in expanding our research further into mechanisms of genotoxicity, chemically induced cytogenetic changes, and problems in developmental biology. Candidates with strengths in cellular and/or molecular biology are urged to apply. Interested candidates should submit curriculum vitae and a list of three references to: Professor Robert Snyder, Chairman, Department of Pharmacology and Toxicology, Rutgers College of Pharmacy, EOHSI Building, 681 Frelinghuysen Road, P.O. Box 1179, Piscataway, NJ 08855–1179. Rutgers University is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT or ASSOCIATE PROFESSOR, begin August 29, 1994. Teach lecture, laboratory sections in upper-level undergraduate biochemistry, introductory chemistry; direct undergraduate research. Requires successful experience or documented potential for excellent teaching, Ph.D. in biochemistry, experience in protein isolation and characterization. Résumé, undergraduate and graduate transcripts, three original letters of recommendation to: Dr. C. R. Kistner, Chair, Department of Chemistry, University of Wisconsin—La Crosse, La Crosse, WI 54601; must be received by January 28, 1994. Unless confidentiality is requested in writing, lists of applicants must be released on request. Finalists cannot be guaranteed confidentiality. Women, minorities, individual with disability encouraged to apply. Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION, Department of Pharmacology, Case Western Reserve University (CWRU). Applications are invited for a tenure-track position at the ASSISTANT PROFESSOR level, although more established candidates will be considered. The area of research is open but preference will be given to molecularly focused research broadly related to cancer. The candidate will be expected to conduct a strong, independent research program and participate in the Department's teaching and administrative responsibilities. Please send curriculum vitae, names and addresses of at least 3 references, recent reprints, and a short statement of projected research to: Dr. Michael E. Maguire, Department of Pharmacology, School of Medicine, Case Western Reserve University, 10900 Euclid Avenue, Cleveland, OH 44106–4965.

CWRU is Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

A FACULTY POSITION is available for an investigator studying the molecular mechanisms of development. The Cardiovascular Developmental Biology Center and the Department of Cell Biology are seeking an individual with a strong background in state-of-the-art experimental approaches. Applicants will be expected to address questions that are central to understanding animal development. While any experimental organism or model system will be carefully considered, investigators using mammalian experimental systems are particularly urged to apply. Generous start-up funds and new laboratory space are available. Appointments will be made at the ASSISTANT or ASSOCIATE PROFESSOR level in the tenure stream. Teaching responsibilities are negotiable, and time will be allowed for the new faculty member to gain experience with the instructional programs. Curriculum vitae, three letters of reference and a research plan should be addressed to: Charles Little, Co-Director, Cardiovascular Developmental Biology Center, Department of Cell Biology and Anatomy, Medical University of South Carolina, 171 Ashley Avenue, Charleston, SC 29425–2204 by January 31, 1994.

An Equal Opportunity/Affirmative Action Employer.

Minorities and women are encouraged to apply.

A tenure-track ASSISTANT PROFESSORSHIP is available in the Department of Biology, the Catholic University of America, beginning September 1994. We seek an individual with primary interests in Immunology or Neurobiology, but exceptional candidates in other areas are encouraged to apply. Applicants should have the ability to establish a vigorous independent research program in a department that also emphasizes undergraduate and graduate teaching. Send curriculum vitae, statement of research and teaching interests, and the names and telephone numbers of three references to: Dr. John Golin, Department of Biology, The Catholic University of America, Washington, DC 20064. Closing date, January 14, 1994. Affirmative Action/Equal Opportunity Employer.

FACULTY POSITIONS MICROBIOLOGY/EVOLUTIONARY BIOLOGY

The Department of Biological Science invites applications for two tenure-track positions at ASSISTANT PROFESSOR level, starting August 1994. Applicants must have a Ph.D., a strong commitment to teaching, and an active research program. The successful candidate will be expected to contribute to the Department's core curriculum and to teach upper-division and Master's-level courses in his/her area of expertise.

MICROBIOLOGIST: We are seeking an individual whose research focuses on mechanisms of microbial pathogenicity or microbial ecology using molecular approaches. Applicants must have at least two years of postdoctoral experience.

EVOLUTIONARY BIOLOGIST: We are interest-

EVOLUTIONARY BIOLOGIST: We are interested in individuals who use modern techniques to address questions in evolutionary biology, and who bridge the fields of organismic and molecular biology. Applicants must have postdoctoral experience

must have postdoctoral experience.

Applicants should send a letter of application, curriculum vitae, copies of publications, statements of research, teaching interest and experience, and 3 letters of recommendation to: Microbiology OR Evolutionary Biology Search Committee, Department of Biological Science, California State University, Fullerton, P.O. Box 34080, Fullerton, CA 92634–9480. Deadline for applications is 31 January 1994, or until a suitable candidate is appointed.

Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR: Molecular Physiologist, Ph.D., tenure-track, start fall 1994. Duties to include developing and teaching an upper-level undergraduate physiology course using modern molecular approaches, teach a cell biology course, and occasionally contributing to the interdisciplinary, values-oriented general education program. Research is expected, utilizing molecular techniques. Since the position is created as part of a grant from the Howard Hughes Medical Institute, preference will be given to candidates whose research relates to biomedical topics. Send curriculum vitae, undergraduate and graduate transcripts and three letters of recommendation by February 15, 1994, to: Dr. William Roess, Eckerd College, P.O. Box 12560, St. Petersburg, FL 33733. An Equal Opportunity Employer.

COMPUTATIONAL SCIENTIST

High-Performance Computing in Materials/Manufacturing Technologies

The Center for Computational Sciences (CCS) at the Oak Ridge National Laboratory (ORNL), a recognized leader in multidisciplinary research and development, is seeking a Computational Scientist for the development and implementation of computational methods on massively parallel computer architectures to help solve materials/ manufacturing problems of critical importance to industry. The position is part of a multidisciplinary team of national laboratory and university collaborators working on the "Grand Challenges" related to materials process simulation, structural mechanics, computational fluid mechanics, synthesis of engineering materials, and process control and optimization.

The successful applicant will be able to work with scientists, programmers, and vendors to create effective implementation of existing codes on state-of-the-art parallel supercomputers employing new hardware and software. Where existing codes are inadequate, the researcher will be expected to develop innovative algorithms and software tools to simulate materials/manufacturing systems. The CCS currently houses a Kendall Square Research computer and two Intel Paragons.

The position requires a PhD (or MS and equivalent combination of education and experience) in a quantitative science (computer science, math, engineering, physics, or materials science). Application programming experience on massively parallel processors and FOR-TRAN programming proficiency are required. Familiarity with C and UNIX or OSF/1 based computers is desired, along with experience in development and use of visualization software and spatial analysis.

Demonstrated interpersonal skills, oral and written communication skills and strong personal motivation are essential.

ORNL is a multi-purpose research facility managed by Martin Marietta Energy Systems for the U.S. Department of Energy. ORNL offers a competitive compensation and benefits package, including relocation. For immediate consideration, send your resume to: J.K. Johnson, Oak Ridge National Laboratory, Dept. SCI-2, P.O. Box 2008, Oak Ridge, TN 37831-6216.

ORNL is an equal opportunity employer committed to building and maintaining a diverse workforce.



MICROBIOLOGISTS

The University of Calgary Department of Microbiology & Infectious Diseases invites applications for two full-time academic positions at the Assistant Professor level or higher, one in each of the following research areas: the molecular basis of viral pathogenesis; and antimicrobial agents, including antibiotic transport, resistance mechanisms or therapy. These positions offer excellent opportunities to develop vigorous independent research programs and collaborative interactions within a multidisciplinary research environment. Duties include teaching and graduate student supervision. Qualifications include a PhD and/or MD, a minimum of two years' postgraduate experience, and demonstrated strong research achievement in one of the two areas.

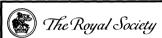
The selected candidates must compete successfully for salary and establishment funding from the Alberta Heritage Foundation for Medical Research and/or the Medical Research Council of Canada, and will have 75% of time protected for research. Rank and salary will be commensurate with qualifications and experience.

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. The University of Calgary has an Employment Equity Program and encourages applications from all qualified candidates, including women, aboriginal people, visible minorities, and people with disabilities.

Please forward a curriculum vitae, statement of research interests, and the names of three referees by January 31, 1994, to:

Dr. D.E. Woods, Head Department of Microbiology & Infectious Diseases The University of Calgary 3330 Hospital Drive N.W. Calgary, Alberta T2N 4N1





VACANT RESEARCH APPOINTMENTS 1994

Applications are invited for about 20 Royal Society University Research Fellowships, tenable in the first instance for five years from 1 October 1994 (or slightly later in the academic year 1994–95). Renewals of three years and then a further two may be possible. The appointments available embrace all branches of science, including agriculture, medicine, mathematics, engineering and technology.

Research Fellows are paid on the academic and academic-related staff (Lecturer A and B) salary scale which currently runs from £14 396 (age 26) to £25 107 (age 39) plus three additional discretionary points up to £28 055. Starting salaries will be on this scale, with London Allowance where appropriate, and will rise incrementally each year. A limited number of merit increments will be awarded each year to reward outstanding performance. Annual research expenses (up to about £11 000 for 1994–95) will be available together with travel expenses and a contribution to baggage costs for successful applicants from overseas and their families.

Applicants must have a Ph.D. or equivalent research experience. Fellowships must be held in a university in the United Kingdom. Those already holding substantive posts in a UK university will not be considered. University Research Fellowships are open only to European Community citizens who are either employed in the UK or who, if not employed, have been resident in the UK for a continuous period of three years other than for the sole purpose of receiving full-time education.

Application forms and further information (including details of age restrictions) are available from the Research Appointments Department, The Royal Society, 6 Carlton House Terrace, London SW1Y 5AG (Fax 071-930 2170). Closing date 11 February 1994. Application forms are not available after 28 January 1994 and applications arriving after 4 p.m. on 11 February will not be considered.

Procter& Gamble PHARMACEUTICALS

Consider an exciting career with a leading health care company committed to worldclass research and product development. We have a significant number of life science openings for motivated professionals to join our growing pharmaceutical research teams in our Cincinnati, Ohio, and Norwich, New York, technical centers.

We have needs in the areas identified below for individuals with degrees at the BS, MS and PhD level, including those with postdoctoral training; we are especially interested in applicants with up to 3-5 years of relevant experience in the pharmaceutical industry. Candidates selected would begin their P&G careers at one of several levels in our Technical Career System based on demonstrated potential to contribute to our drug discovery projects.

Procter & Gamble Pharmaceuticals is the ethical drug division of a world leader in the research, development, manufacture and marketing of a wide variety of health care, beauty care, cosmetics & fragrances, food & beverage, laundry & cleaning and paper products. P&G's annual sales exceed \$30 billion and our annual R&D investment is more than \$1 billion. In addition to being the leading OTC health care marketing company in the U.S., we have a growing prescription drug business in the anti-infective, arthritis, bone, cardiac, gastrointestinal, oral care and respiratory areas.

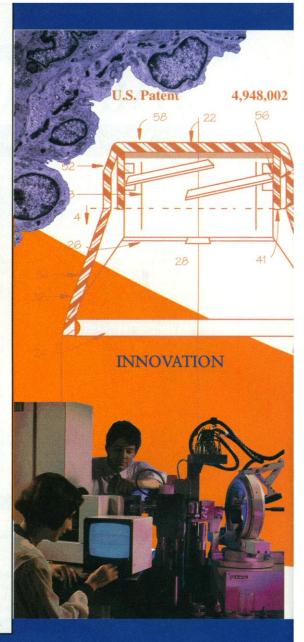
By 1995, we will begin occupying our new \$282 million Health Care Research Center, located just north of Cincinnati. Through a major commitment to building our strong health care business, the R&D organizations have established aggressive drug development programs that will provide excellent opportunities for personal and professional growth. P&G offers a competitive salary and benefits package placing us among the top 5% of U.S. firms.

If you believe your background is a match for one of the openings described below, send a letter of introduction and resume in confidence to:

For applicants with PhD degree: Procter & Gamble R&PD Technical Recruiting Dept. PGP1

P.O. Box 398707 Cincinnati, Ohio 45239-8707 For applicants with BS or MS degree: Procter & Gamble R&PD Technical Recruiting Dept. PJ4SC3 6090 Center Hill Avenue Cincinnati, Ohio 45224-1792

No agency referrals, please. An Equal Opportunity Employer



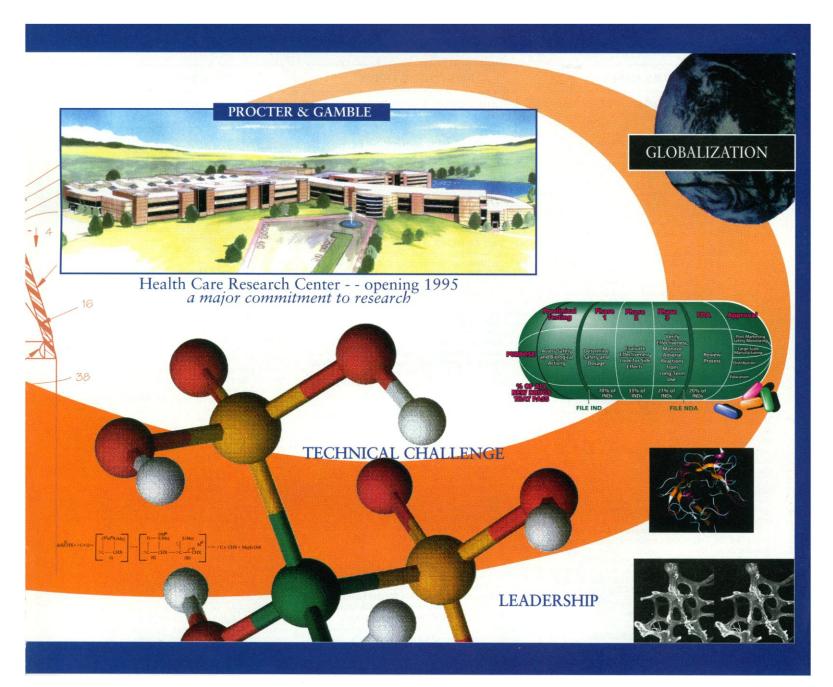
BIOLOGY/BIOCHEMISTRY

- CELL BIOLOGISTS/BIOCHEMISTS to characterize the immunosuppressive and anti-inflammatory effects of respiratory drugs at the cellular and biochemical (molecular mediator) level
- CELL BIOLOGISTS with background in growth factor and cytokine biology and cell culture systems to develop new leads in bone therapeutics
- MOLECULAR BIOLOGISTS/BIOCHEMISTS to define and develop appropriate model systems for the biochemical characterization of the mechanisms of action of novel cardiovascular research compounds
- MOLECULAR BIOLOGISTS to identify molecular targets for therapeutic intervention and to characterize osteoporosis, osteoarthritis and respiratory drugs at the molecular level.

- ELECTROPHYSIOLOGISTS to profile cellular electrophysiological effects of cardiac drugs on myocytes and oocytes
- IMMUNOLOGISTS to investigate the immune and inflammatory pathogenesis of respiratory diseases and arthritis, including the development of appropriate biological models
- DVM/PHARMACOLOGISTS to explore inlife mechanism of action of new therapies for postmenopausal osteoporosis
- HISTOLOGISTS to prepare tissues for histological analyses and conduct in vivo procedures to evaluate potential new therapeutic leads
- BIOCHEMISTS to analyze and characterize various enzymes, proteins and biomarkers in biological matrices

PHARMACOLOGY

- PHARMACOLOGISTS/BIOCHEMISTS with experience in receptor gene expression, recombinant receptor subtyping and second messenger systems to identify drug receptors/ion channels using receptor binding techniques
- PHARMACOLOGISTS/PHYSIOLOGISTS to develop appropriate in vitro and in vivo model systems for the assessment of novel cardiovascular research compounds
- PHARMACOLOGISTS/PHYSIOLOGISTS to investigate the physiologic and/or pharmacologic aspects of respiratory allergy, asthma and upper respiratory diseases
- PHARMACOLOGISTS/BIOCHEMISTS to establish and validate biological models of osteoarthritis or to investigate the pharmacological pathways effective in pain management.



- PHARMACOKINETICISTS to characterize the kinetics and disposition of antibiotics in biological models, emphasizing absorption and metabolism
- PHARMACOKINETICISTS to design, implement, analyze and report clinical pharmacokinetic/pharmacodynamic studies

TOXICOLOGY

- TOXICOLOGISTS with experience in endocrinology and pharmacology/ physiology to provide toxicology support to bone research projects
- TOXICOLOGISTS/PHARMACOLOGISTS to work with project teams to guide and support technologies from early clinical evaluation to product introduction

MICROBIOLOGY

- MOLECULAR BIOLOGISTS/MICROBIAL PHYSIOLOGISTS/GENETICISTS to investigate new therapeutic targets for bacterial pathogens
- MICROBIOLOGISTS/BIOCHEMISTS to characterize antibiotic transport across bacterial membranes and the interaction of antibiotics with cytoplasmic enzymes
- MEDICAL/ORAL MICROBIOLOGISTS to design, manage, and interpret laboratory and clinical investigations on the microbiology of new health care products and antimicrobial actives

RELATED SCIENCES

STATISTICIANS/BIOSTATISTICIANS to design, analyze and interpret, and, as necessary, develop methodology for

- preclinical pharmacology/toxicology studies and clinical/efficacy studies of drug candidates
- CLINICAL DATA MANAGERS to work with clinicians, statisticians and regulatory specialists to manage all aspects of clinical trials data, and implement innovative data management technologies including CANDA and remote data entry
- PHARMACISTS/PHARM Ds to manage adverse event work for clinical trials and to provide medical information to project teams, consumers and health care professionals in support of new product launches
- CLINICAL RESEARCH ASSOCIATES with at least two years' experience in developing clinical protocols, implementing and monitoring clinical trials, managing clinical data and writing summary reports

The Division of Social Psychiatry in UCLA's Department of Psychiatry and Biobehavioral Sciences seeks applicants for a key MID-CAREER or SENIOR POSITION in the Division's interdisciplinary research and teaching programs. A successful candidate will be expected to develop a research program in one of the areas of major emphasis of the Division, including but not limited to: health services research, community mental health preventive and clinical interventions, studies of comparative and high-risk sexual behavior, studies with culturally and ethnically diverse populations, immigrant adult and children's mental health services, and cross-cultural epidemiologic investigations, with a strong emphasis on family and community processes. It would be desirable for candidates to participate in clinical and/or supervisory activities. Applicants with backgrounds in epidemiology, sociology, psychology, anthropology, public health and psychiatry are encouraged to apply. Rank and series commensurate with background and experience. Send curriculum vitae and names and complete addresses of three references to: Marvin Karno, M.D., Director, Division of Social Psychiatry, Department of Psychiatry & Biobehavioral Sciences, UCLA, Los Angeles, CA 90024–1759. UCLA is an Affirmative Action/Equal Opportunity Employer.

DIRECTOR, OFFICE OF SCIENCE AND TECHNOLOGY

The Food and Drug Administration seeks an outstanding individual to direct its Office of Science and Technology in the Center for Devices and Radiological Health located in Rockville, Maryland. The position is in the Senior Executive Service with a salary range of \$92,900 to \$107,300 (physicians may be eligible for a comparability allowance up to \$20,000 per year). Candidates may also be eligible for a recruitment or relocation bonus of up to 25% of base pay.

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If interested, please call John Anderson on (301) 443-1755 for information regarding qualification requirements and how to apply for the position. Applications will be accepted until December 31, 1993.

This position can also be filled by current Commissioned Officers of the U.S. Public Health Service, or by former officers willing to rejoin the Corps.

An Equal Opportunity Employer. FDA is Smoke-free.

CONSERVATION DIRECTOR/ AQUATIC ECOLOGIST

The Conservancy, a regional nonprofit conservation organization, invites applications for the Director of its Environmental Protection Division. Applicants must have a Ph.D. in ecology with emphasis in applied aquatic ecology/hydrology and strong research, leadership, conservation, communications, and grant-writing skills. Subtropical experience is a plus. Closing Date: December 10, 1993, or until filled. Send application letter, curriculum vitae, and three references, to: Human Resources Director, The Conservancy, 1450 Merrihue Drive, Naples, FL 33942.

Equal Opportunity and Drug-free Employer.

ADMINISTRATOR for program and committee support in scientific society in Philadelphia. Five years of work experience desired. Requires detail-oriented person with excellent writing skills, versatility, and computer literacy. Graduate degree preferred. Science background or association management experience valuable. Send résumé, covering letter, desired salary, and writing sample to: AJ, P.O. Box 54335, Philadelphia, PA 19105.

CHAIRMAN, DEPARTMENT OF NEUROLOGY

The University of Texas-Houston Medical School is seeking candidates for Chairman of its Neurology Department. Interested applicants should send a copy of their curriculum vitae to: James Willerson, M.D., Chairman, Neurology Search Committee, Suite MSB 1.150, P.O. Box 20708, Houston, TX 77225.

The University of Texas-Houston Medical School is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

POSITIONS OPEN

MICROBIOLOGY AND ENVIRONMENTAL BIOLOGY: Western Michigan University seeks applications for one TENURE-TRACK ASSISTANT PROFESSOR position in Biological Sciences for fall 1994, pending budgetary approval. This position requires a Ph.D. and postdoctoral experience in MICROBIOLOGY and expertise in bacterial molecular genetics to solve problems associated with cellular, environmental or evolutionary issues. Teaching experience in clinical microbiology for undergraduate health professionals is required. Development of an externally funded research program and participation in the department's new doctoral program is expected. A one-year TEMPORARY ASSISTANT PROFESSOR position in ENVIRON-MENTAL BIOLOGY is also available for fall 1994, pending budgetary approval. The position requires a Ph.D. and demonstrated teaching ability in environmental biology. Responsibilities include teaching introductory courses in environmental biology and area of expertise. Western Michigan University, a Camegie Classification Doctoral I Institution, has embarked upon a vigorous Affirmative Action program and encourages applications from women and members of minority groups. Send letter of application, curriculum vitae, academic transcripts and three letters of recommendation to: Dr. Robert Eisenberg, Search Committee Chair, Biological Sciences Department, Western Michigan University, Kalamazoo, MI 49008. Review of applications will begin December 1, 1993, and continue until positions are filled.

DIRECTOR OF RESEARCH (M.D. or Ph.D.) METROHEALTH MEDICAL CENTER (a teaching hospital of Case Western Reserve University School of Medicine.) New position created for individual responsible for coordination of all research programs. Duties include: develop and implement research strategic plan, allocate research space in new, 80,000 square foot building, assist development of departmental research programs, recruitment and allocation of hospital research funds. Active research in area of personal interest and experience expected. Candidate's research focus is open; those with expertise in Molecular or Structural Biology particularly encouraged. Patient care activities not required. Appointment with appropriate academic rank awarded at Case Western Reserve University. Must have proven record of experience in directing research programs and continuing national funding. Send curriculum vitae to: John J. Moore, M.D., Search Committee Chair, Department Pediatrics, MetroHealth Medical Center, 2500 MetroHealth Drive, Cleveland, OH 44109–1998. An Equal Opportunity Employer.

DIRECTOR OF MARKETING—U.S. INDUSTRIAL BIOPRODUCTS DIVISION. Marketing responsibility for division of life science research and biomedical manufacturing company. Position responsible for 5 marketing cost centers, promotional budget and management of outside promotional agency and market research. Position is senior management directing 13 managers in business development, strategic planning, product development and support. Overall responsibilities include operations and business management; identifying business opportunities including joint ventures and divestitures; market assessment; international product marketing; strategic planning; and management of international and domestic accounts. Position functions as chief liaison with scientific communities in strategic planning, international business and market develop-ment. Position requires 5 years of experience in sales and marketing of life science or pharmaceutical prod-ucts/services to industrial customers in international settings; five years of experience in strategic, financial, marketing and sales management in major multination al company and three years of experience in research and/or product development in industrial products in closely related areas, such as pharmaceuticals or specialty chemicals. Experience may be acquired concurrently. Éducational Requirements: Master's degree in accounting, marketing or finance, or Bachelor's degree in accounting, marketing or finance or its equivalent plus five years of progressive experience in the position offered or in strategic planning and/or business development on an international scale. Salary: \$95,000 per year and benefits. Job location: Gaithersburg, Maryland. Mail résumé and copy of ad to: Department of Economic and Employment Development, 1100 North Eutaw Street, Room #212, Baltimore, MD 21201. Job Order Number 9248661.

POSITIONS OPEN

PACIFIC NORTHWEST RESEARCH FOUNDATION ASSOCIATE/FULL MEMBER

Applications are sought for a faculty position in the area of transcriptional regulation relating to carcinogenesis. Applicants should have demonstrated accomplishment in research as evidenced by federal funding and significant peer-reviewed publications. Complementation to existing carcinogenesis programs including carbohydrate biochemistry, biochemical epidemiology, gene therapy and cell signaling is desired. The position is highly competitive with regard to start-up funds, salary and laboratory space. Applicants should provide curriculum vitae, brief summary of research accomplishments and future interests and names and addresses of three references to:

Dr. Gerald Murphy, Scientific Director Pacific Northwest Research Foundation 720 Broadway Seattle, WA 98122

Affirmative Action/Equal Opportunity Employer.

DEVELOPMENTAL GENETICS—The Department of Biological Sciences, University of Alabama, seeks applicants for a tenure-track position at the ASSISTANT PROFESSOR level, in the area of developmental genetics. We are interested in individuals with research interests in the genetic and/or molecular analysis of cellular aspects of development, including cell-cell interactions, morphogenesis and determination. The department is creating a research focus in developmental genetics, and expects to hire at least one additional developmental geneticist next year. The successful candidate will be expected to establish a productive research program, train graduate students, and participate in undergraduate courses in biochemistry, cell biology or genetics. Candidates must have the Ph.D. or equivalent and postdoctoral training, and have a record of productive research. Send curriculum vitae and statement of research interests, and arrange to have three or more letters of reference sent to: Dr. Ed Stephenson, Faculty Search Committee, Department of Biological Sciences, University of Alabama—Box 870344, Tuscaloosa, AL 35487. Completed applications received by January 14, 1994, are assured of consideration. The University of Alabama is an Equal Opportunity/Affirmative Action Employer.

ENVIRONMENTAL MOLECULAR MICROBIOLOGIST

Applications are invited for a tenure-track faculty position to begin in the fall 1994. Rank is open. Position available pending budgetary approval. The successful candidate will be experienced in using the techniques of modern molecular biology in his/her research as evidenced in his/her dissertation/publications. A Ph.D. is required and postdoctoral or equivalent work experience is preferred. The successful candidate will be expected to teach in the Department's academic programs including the environmental and biotechnology curricula, and a commitment to excellence in teaching must be demonstrated. Establishment of an externally funded research program based on applications of molecular techniques to environmental problems will be necessary. Applications including curriculum vitae, statement of research interests, and three letters of recommendation should be received no later than January 17, 1994, by: Chair, Environmental Molecular Microbiology Search Committee, Department of Biology, MS 3E1, George Mason University, Fairfax, VA 22030–4444. George Mason University is an Equal Employment Opportunity/ Affirmative Action Institution.

FACULTY POSITIONS IN MICROBIOLOGY Emory University School of Medicine

The Department of Microbiology and Immunology invites applications for two tenure-track faculty positions in immunology or virology. Candidates must have a Ph.D. or M.D. degree with at least two years of post-doctoral experience, a strong record of accomplishment in research, and the ability to initiate a competitive, independent research program. Applications should include curriculum vitae, a brief research history and plans for future research, and the names and addresses of three references. Submit application materials to: Dr. Richard W. Compans, Chair, Department of Microbiology and Immunology, Rollins Research Center, Emory University School of Medicine, Atlanta, GA 30322. An Equal Opportunity/Affirmative Action Employer.

Opportunities in Medicinal Research

Nippon Glaxo Tsukuba Research Laboratories located in Japan is one of the international research sites of GLAXO Group involved in the discovery and development of important new medicines. Our current research interests are Inflammation and Cancer.

To strengthen and expand our basic research, drug discovery and development programs, we are now seeking a number of research scientists involved in the fields of:

- Molecular Biology
- Synthetic Organic Chemistry
- Pharmacology
- Molecular Biology

You will probably have a PhD with either postdoctoral experience of independent research or some experience in research based drug discovery. You will be able to apply your molecular biology skills to resolving cell biological and mechanistic problems. • Organic Chemistry

You will probably have a PhD with industrial experience in medicinal chemistry, preferably over 5 years. Strong organic synthesis background is required.

Pharmacology

You will probably have a MS or PhD with NDA filing experience in cardiovascular, central nervous system or respiratory fields.

Good communication skills and the ability to work as a part of a team are also essential.

For confidential consideration of your application and for further details, send your curriculum vitae or resume with cover letter to:

Nobuyuki KIRIKI, General Affairs Department, Tsukuba Research Laboratories, Nippon Glaxo Ltd., 43 WADAI, TSUKUBA-SHI, IBARAKI, 300-42, JAPAN Tel 0298-64-5050, Fax 0298-64-8558

Glaxo 日本グラクソ株式会社



LOYOLA UNIVERSITY CHICAGO

Shock Trauma Post-Doctoral Fellowship Loyola University Medical Center Maywood, Illinois

- Loyola University Shock Trauma Institute is accepting applications for one & two year post-doctoral research fellowships to begin in July, 1994
- Eligible candidates will be recent Ph.D. recipients in a discipline related to leukocyte cellular and molecular biology during traumatic, septic or burn injury
- Fellows will work with an established clinical or basic science investigator

Interested applicants should send curriculum vitae, a description of research interests and three letters of reference to:

Richard L. Gamelli, M.D., Director Loyola University Shock Trauma Institute Building 54, Room 260 2160 South First Avenue Maywood, IL 60153

Loyola University of Chicago is an Equal Opportunity / Affirmative Action Employer



DEPARTMENTAL CHAIR DEPARTMENT OF CHEMISTRY

Applications and nominations are invited for the position of Departmental Chair in the Department of Chemistry at Duke University. All areas of research will be considered for the appointment. It is expected that the senior scientist filling this position will have demonstrated major scientific achievements and international stature in his/her area of research and be able to lead the future development of the Department of Chemistry. Appointment to this tenured professorship is expected to begin on September 1, 1994. Applications and nominations should be sent to Dr. James N. Siedow, Chemistry Chair Selection Committee, Department of Botany, Duke University, Box 90338, Durham, NC 27708-0338.

Duke University

uke University is An Equal Opportunity/Affirmative Action Employer.

KALAMAZOO COLLEGE

Faculty Opening—Kalamazoo College invites applications for a tenure-track faculty appointment as Assistant Professor in the Chemistry Department beginning in September 1994. The principal responsibilities include courses in biochemistry and in supporting areas such as organic or introductory chemistry or chemistry for non-science students, and the development of an active research program emphasizing undergraduate student participation. Applicants must have a Ph.D. (or provide evidence of imminent completion) in biochemistry or related fields including bioorganic, bioanalytical, biophysical, or bioinorganic chemistry. Kalamazoo College is a selective liberal arts institution of 1200 students in a metropolitan area of over 100,000 located midway between Chicago and Detroit. The College has a long and distinguished record in undergraduate science education. In 1992 the Chemistry and Biology Departments occupied the new \$10 million Dow Science Center which features individual student-faculty research laboratories. The Chemistry Department has five full-time faculty members and maintains an extensive array of modern instrumentation. Applicants should submit a resume, undergraduate and graduate transcripts (unofficial accepted), a two-to-three page statement of teaching and research plans, and three letters of recommendation to Professor Thomas J. Smith, Department of Chemistry, Kalamazoo College, Kalamazoo, MI 49006-3295. Review of applicant files will begin December 15, 1993, and will continue until the position is filled. Kalamazoo College particularly encourages applications from women and minorities. Equal Opportunity Employer; ACS-accredited program

ROWE CHAIR OF HUMAN MOLECULAR GENETICS: The University of California, Davis, announces the search for the Rowe Chair of Human Molecular Genetics. The Rowe Chair must provide prominent leadership in the establishment and development of a basic research and teaching program in Human Molecular Genetics in the Department of Biological Chemistry, School of Medicine and the Division of Biological Sciences. Incumbent will be expected to play an entrepreneurial leadership role in the development of molecular genetics and recruitment of faculty with demonstrated ability and achievement in investigator-initiated discovery research.

Successful candidate must possess M.D. or M.D./

Successful candidate must possess M.D. or M.D./ Ph.D. degree and an outstanding record in high-quality basic molecular biological discovery research.

basic molecular biological discovery research.

Please forward the following: (1) letter describing administrative, teaching, and research background; (2) curriculum vitae; and (3) names and addresses of five references to: Deans Gerald Lazarus and Mark McNamee c/o Karen Eilers, Office of the Dean, School of Medicine, 100 Medical Sciences I-C, East Health Sciences Drive, University of California, Davis, CA 95616. This position will be "Open Until Filled." Applications will not be accepted after April 15, 1994. The Search Committee will begin review of applications two weeks after publication of position announcement. The University is an Affirmative Action/Equal Opportunity Employer.

DIRECTOR

The Moss Landing Marine Laboratories (MLML) invites applications for the position of Director. Responsibilities include administering the academic and research programs, coordinating faculty and student affairs, fostering and participating in the instructional program, maintaining an active research program, and encouraging the education and research activities of faculty and students. Currently, MLML is housed in temporary facilities; the Director will be instrumental in the reconstruction process.

The Director should be a distinguished scientist of international reputation, eligible for tenure, with broad interests in the marine sciences, a Ph.D., a notable record of academic achievement, administrative expertise, and a demonstrated potential to provide effective management and leadership. Familiarity with UNOLS ship operations is desirable.

Submit curriculum vitae, names of three references, recent publications/reprints, and other information as may be appropriate. Review of applications begins January 15, 1994, and a decision is expected by May 1, 1994, with a starting date of August 24, 1994 (or earlier). Dr. Kenneth R. Rebman, Chair, Moss Landing Marine Laboratories Governing Board, P.O. Box 450, Moss Landing, CA 95039.

Detailed position announcements from MLML at the above address or call 408-755-8650 or Email: JOHNSTON@MLML.CALSTATE.EDU.

SJSU/MLML is an Equal Employment Opportunity/ Affirmative Action Employer.

Technion Faculty of Medicine, Haifa, Israel FACULTY POSITIONS IN MOLECULAR MICROBIOLOGY

We invite applications for tenure-track faculty positions in areas of Molecular Microbiology. The successful candidate will be expected to establish and maintain a vigorous and funded research program in either Molecular Virology or Bacteriology and to participate in teaching in Microbiology at the undergraduate and graduate levels.

Applicants should submit curriculum vitae, a concise description of research interests and goals, and three references to: Prof. Peretz Lavie, Dean, The B. Rapaport Faculty of Medicine, Technion-Israel Institute of Technology, P.O. Box 9649, Haifa 31096, Israel.

POSTDOCTORAL POSITIONS

To study mammalian gene expression induced by DNA damage. Experience in molecular biology, virology, and/or mammalian tissue culture is preferable. Send curriculum vitae and the names and telephone numbers of three references to: Dr. Kris Valerie, Radiation Oncology, Virginia Commonwealth University, Medical College of Virginia, Box 58, Richmond, VA 23298–0058. An Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

IRVINE CHAIR OF ANTHROPOLOGY CALIFORNIA ACADEMY OF SCIENCES

The California Academy of Sciences invites applications for the position of Irvine Chair of Anthropology and Chair of the Department of Anthropology. The Academy, founded in 1853, has strong emphases in systematics, evolutionary biology, ecology and natural history in both its research and educational programs. The successful candidate will be expected to have an anthropological research program that falls within these areas. We seek a colleague with a wide range of interests who could advise and contribute to ongoing research programs and other activities of the Academy. Candidates should have a Ph.D., with an established research program, and a dedication to education and public programs. Some administrative experience and knowledge of issues related to museology preferred. Proximity of the Academy to greater San Francisco Bay Area colleges and universities offers the potential for interaction and collaboration with a wide array of Anthropology and other scientific programs. Starting salary: \$35,316. Applicants should forward curriculum vitae, description of research program and the interface of their interests with the Academy, and the names of 3 references to: Director of Research, California Academy of Sciences, Golden Gate Park, San Francisco, CA 94118. Deadline for applications is 15 January 1994. The California Academy of Sciences is an Equal Opportunity Employer.

ENVIRONMENTAL BIOLOGIST: TENURE-TRACK POSITION available August 1994. Ph.D. and applied ecology background with zoological emphasis required. Duties include administration of Environmental Biology program and teaching undergraduate and graduate environmental biology courses. Development of research program expected. Detailed position description available upon request. Send letter of application; curriculum vitae; and names, addresses, and telephone numbers of three references to: Timothy Bell, Search Committee Chair, Department of Biological Sciences, Chicago State University, 9501 South King Drive, Chicago, IL 60628–1598. Review of applications will begin January 15, 1994, and continue until position filled. Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL POSITION available immediately to study extracellular matrix components, proteinases, and proteinase inhibitors that regulate growth factor activity. Experience in cell and molecular biology is important. Interested candidates should forward curriculum vitae and reference letters to: Dr. Steven J. Gonias, Departments of Pathology and Biochemistry, University of Virginia Health Sciences Center, Box 214, Charlottesville, VA 22908. UVA is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS Influenza Pathogenesis, Host Range Restriction

Positions are available to study the molecular pathogenesis of influenza virus. The research involves the elucidation of the assembly mechanism of influenza virus or the molecular basis of host range restriction of the virus. The candidate will receive training in state-of-theart molecular and immunological techniques, including reverse genetics, that are being used to address these questions. Interested individuals should send curriculum vitae and the names of three references to: Dr. Yoshihiro Kawaoka, Department of Virology and Molecular Biology, St. Jude Children's Research Hospital, Danny Thomas, Founder, 332 North Lauderdale, P.O. Box 318, Memphis, TN 38101-0318. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION/RESEARCH ASSOCIATE available immediately to study regulation of lymphocyte self-tolerance via apoptosis. Candidate should have interest in immunology, transplantation, autoimmunity, cell/developmental biology; immunology, cell culture, molecular biology, protein chemistry animal experience all helpful. Send curriculum vitae, statement of research interests, and three letters of reference to: Susan A. McCarthy, Ph.D., Department of Surgery, University of Pittsburgh, W1554 Biomedical Science Tower, Terrace and Lothrop Streets, Pittsburgh, PA 15213. The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

POSTDOCTORAL POSITION, MOLECULAR RETROVIROLOGY. Available immediately to participate in ongoing research project on simian immunodeficiency virus (SIV) and human immunodeficiency virus (HIV). Current project focuses on a variety of virus-host interactions including molecular mechanisms of virus cell tropism and neuropathogenesis. Applicants should have experience in recombinant DNA technology and/or virology. Interested individuals are encouraged to send a letter of research interest, curriculum vitae, and three references to: Dr. Toshiaki Kodama, Division of Primate Medicine, Oregon Regional Primate Research Center, 505 NW 185th Avenue, Beaverton, OR 97006. Telephone: (503) 690-5284; FAX: (503) 690-5563. The ORPRC is an Equal Opportunity/Affirmative Action Employer.

RESEARCH SCIENTIST. International Chitin Prod. Inc. (ICPI) is looking for a production and research Scientist. Applicant should hold a Ph.D. in bacteriology, research experience in fermentation, protein engineering, and bacteria genetics. Send detailed curriculum vitae and three references to: ICPI, #3-13511 Crestwood Place, Richmond, BC, Canada V6V 2G5. Attention: M. Ng by December 15, 1993.

POSTDOCTORAL POSITION AVAILABLE. Will participate in the purification and cloning of an endothelial cell receptor for human coagulation factor IX. Send/FAX curriculum vitae and 3 letters of reference to: Darrel Stafford, Department of Biology, 442 Wilson Hall, University of North Carolina at Chapel Hill, Chapel Hill, NC 27599–3280; FAX: (919) 962-0597.

POSTDOCTORAL POSITION available in molecular neurobiology in neurodegenerative diseases, including Alzheimer's disease in established multidisciplinary laboratory. Qualifications include a Ph.D. or M.D., and a strong background in biochemistry and molecular biology to explore the molecular basis of these diseases. Submit curriculum vitae and three references to: Dr. Carol A. Miller, Department of Pathology, USC School of Medicine, 2011 Zonal Avenue, Los Angeles, CA 90033. FAX: (213) 342-1808.

POSTDOCTORAL POSITION IN GROWTH FACTOR SIGNAL TRANSDUCTION: Available immediately for recent Ph.D. with training in cell and molecular biology. Research involves molecular biological approaches to identification of signaling proteins for growth factors, with emphasis on TGFβ. Send curriculum vitae and names of 3 references to: Dr. Kathleen M. Mulder, Department of Pharmacology, Penn State University College of Medicine, 500 University Drive, Hershey, PA 17033; FAX: 717-531-5013. Equal Opportunity Employer.

POSTDOCTORAL POSITIONS (2); one immediately and one from January 1, 1994, to study molecular mechanisms coupling signal transduction to receptor-mediated endocytosis and membrane turnover. Work focuses on the interactions of the PI signaling pathway, molecular chaperones and other proteins with receptors, clathrin coated membranes and endosomes (see NATURE 365: 459 [1993] for recent publication). Expertise in molecular cloning or protein biochemistry desirable. Send curriculum vitae and the names of references to: Dr. James H. Keen, Jefferson Cancer Institute and the Department of Pharmacology, Thomas Jefferson University, 233 South 10th Street, Philadelphia, PA 19107. FAX: (215) 923-1098. Equal Opportunity Employer.

POSTDOCTORAL POSITION, available January 1994, to study regulation of gene expression in relation to extracellular matrix proteins of blood vessels, angiogenesis, or ion channels involved with chemoreception. Our laboratory has a long tradition of pulmonary physiology including the pulmonary circulation, gas exchange, exercise, and control of ventilation, and is developing programs in research and training at the interface between integrative physiology and molecular biology. Some experience in molecular biology desirable. Stipend according to NIH guidelines; applicants must be permanent residents of the U.S. Send curriculum vitae to: John B. West, M.D., Ph.D., Department of Medicine O623, University of California San Diego, 9500 Gilman Drive, La Jolla, CA 92093–0623. UCSD is an Affirmative Action/Equal Opportunity Employer and encourages minority and female applicants to apply.

DNAX Research Institute

Postdoctoral Fellowships

DNAX Research Institute, located near Stanford University, carries out basic research in Immunology and Molecular Biology in an open, academic environment. We are looking for bright, motivated individuals for a period of 2-3 years, who can contribute to our enthusiastic and productive research program.

Postdoctoral positions are now available in the laboratory of Emma Lees, Ph.D., to study aspects of mammalian cell cycle regulation, in particular the components involved in control of the G1/S transition in higher eukaryotes.

Qualified applicants should send a curriculum vitae, statement of research interests, and the names of three references to:

Human Resources Department DNAX Research Institute 901 California Avenue Palo Alto, CA 94304

An Equal Opportunity Employer, m/f/d/v

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At I ederle-Praxis Biologicals, a division of American Cyanamid Company, we're pioneering the design, manufacture and marketing of vaccines so sophisticated, they're changing lives—right now.

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RESEARCH SCIENTIST

Molecular Biology

Your focus will be on the expression of antigens for vaccine research purposes. To qualify, you must have a PhD (or equivalent) in a related science and a minimum of 2 years of post-doctoral experience. Experience with molecular cloning and expression systems is essential; experience with prokaryotes is preferred.

At Lederle-Praxis, you'll enjoy a professional atmosphere and the kind of salary and benefits package you'd expect from an industry leader. Please send your resume to: **Human Resources Department, Lederle-Praxis Biologicals, 211 Bailey Rd., West Henrietta. NY 14586-9728.** An Equal Opportunity I imployer



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Chair of the Department of Chemistry VANDERBILT UNIVERSITY

The Department of Chemistry at Vanderbilt University is searching for a scientist with an internationally recognized research program to fill the position of Departmental Chair at the rank of Professor. The new Chair should have a proven commitment to teaching of the highest quality at both the undergraduate and graduate levels and a demonstrated record of academic leadership. The department has active research programs in the traditional areas of organic, inorganic, physical, and biological chemistry, as well as several interdisciplinary areas, including materials and biophysical chemistry. The department comprises 20 regular faculty positions. The Department Chair will lead searches to fill several of these positions. Plans for a new research and teaching facility for the Department of Chemistry are currently underway with construction beginning in June of 1994. This position represents an extraordinary opportunity to shape the future of teaching and research in chemistry at an outstanding private university. Interested applicants should send a curriculum vitae, a statement of future research plans, and names and addresses of 3 or more references to: Professor Charles M. Lukehart, Departmental Chair Search Committee, Department of Chemistry, Vanderbilt University, P.O. Box 1822-B, Nashville, Tennessee, 37235. The preferred closing date for applications is February 1, 1994. Vanderbilt University is an AAU university with undergraduate, graduate, and professional programs in ten colleges and schools on a single, 350-acre campus. Vanderbilt University is an Equal Employment Opportunity/Affirmative Action Employer.



Innovation & Efficiency

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

TECHNICAL SALES REPRESENTATIVE

This position represents a unique opportunity for an individual to participate in a growing technical sales organization. Position is available immediately in the South Central Territory with the base location in the Houston area.

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

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



POSTDOCTORAL POSITION

On the molecular pathogenesis of adenovirus. Research on the molecular mechanisms by which adenovirus proteins either inhibit or augment cell killing (apoptosis) induced by oncogenes, TNF, and cytotoxic Tlymphocytes. The studies include signal transduction by TNF and EGF. Experience in molecular and cellular biology and/or immunology desirable. Send curriculum vitae and names of three references to:

William Wold
Department of Molecular Microbiology
and Immunology
St. Louis University Medical School
1402 South Grand
St. Louis, MO 63104

POSTDOCTORAL POSITION—ECOLOGY

Position available 15 April 1994 to study storage effect and other mechanisms maintaining diversity. Assess effects of environmental factors and competition using field experiments, as part of study also involving lab experiments and modelling. Ability to identify plants and direct research at remote field site essential. Send curriculum vitae, transcripts, and have three references sent by 1 January 1994 to: Drs. Nancy Huntly and Peter Chesson, Biological Sciences, Idaho State University, Pocatello, ID 83209–8007; FAX: 208-236-4570. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL—MOLECULAR VIROLOGY

Postdoctoral position available to work on the molecular virology of HSV-1 latency and pathogenesis. Experience in either molecular biology, molecular genetics, molecular/classical virology (especially herpes virology), or immunology (especially viral immunology) is highly desirable, but not essential. Funding for this position is guaranteed for at least 3 years at a highly competitive salary. Send curriculum vitae with names and telephone numbers of 3 references to: Dr. Steven L. Weschler, Director, Virology Research Laboratories, Harper Building—124, CEDARS-SINAI MEDICAL CENTER, Research Institute/UCLA School of Medicine, 8700 Beverly Boulevard, Los Angeles, CA 90048—1869. FAX: (310) 657-0190. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL SCIENTIFIC RESEARCH OPPORTUNITIES IN INDIA. 3 to 12-month fellowships in India awarded to U.S. citizens in 1993–94. For more information, contact: Jeanine Marie Greene, Academy for Educational Development, 1255 23rd Street, N.W., Washington, DC 20037, or 1-800-545-8007.

POSTDOCTORAL RESEARCH FELLOW (RECENT Ph.D.)

Position available for 2 years to study the role of the nuclear orphan receptor, steroidogenic factor 1, in ovarian steroidogenesis and growth, in both rat and human. Experience in molecular biology required; experience in reproductive biology/endocrinology preferred. Please send curriculum vitae and the names of three references by January 1, 1994, to: Dr. Bruce A. White, Department of Anatomy MC3405, University of Connecticut Health Center, Farmington, CT 06030.

POSTDOCTORAL RESEARCH TRAINING FELLOWSHIPS in endocrinology, metabolism, and diabetes for M.D. or Ph.D. graduates are available at Emory University School of Medicine. Projects in: osteoblast signal transduction/gene regulation; sphingolipids and cell regulation; neuroendocrine neuropeptide neuralbiology; molecular genetics of growth; protein kinase C in cancer/heart; signal transduction; regulation of cytochrome P450; regulation of adipose tissue metabolism; molecular regulation of IGF's/IGFBP's; and glucose transporter molecular regulation. Must be U.S. national or permanent resident. M.D. applicants must have U.S. residency experience. Send curriculum vitac, statement of research and career objectives, and two letters of reference to: Lawrence S. Phillips, M.D., Program Director, Emory University School of Medicine, 69 Butler Street, S.E., Atlanta, GA 30303. An Equal Opportunity Employer.

POSITIONS OPEN

POSTDOCTORAL POSITION

A position is available to participate in studies on the structure and function of neutral lipid ester hydrolases in the liver. The focus is on enzymes that may be involved in the hepatic metabolism dietary cholesterol and vitamin A. These investigations involve protein purification, enzymology, molecular biology, and cell culture techniques. Applicants should send curriculum vitae and the names and addresses of three references to: Dr. Earl H. Harrison, Division of Nutrition, Department of Biochemistry, Medical College of Pennsylvania, 2900 Queen Lane, Philadelphia, PA 19129.

TWO POSTDOCTORAL FELLOWS to study the following aspects of RNA recognition: (1) selective splicing of mRNA's by protein factors, (2) aminoacylation of tRNA's by aminoacyl tRNA synthetases, (3) processing of novel tRNA's by RNase P. Experience in biochemistry, molecular biology, and tissue culture is preferable. Submit curriculum vitae, and names and addresses of three referees to: Dr. Ya-Ming Hou, Department of Biochemistry and Molecular Biology, Thomas Jefferson University, 233 South 10th Street, Philadelphia, PA 19107. FAX: 215-955-5393.

POSTDOCTORAL FELLOW—HIV IMMU-NOLOGY. Position available immediately for ongoing project studying T cell function and turnover in HIV-positive humans. Large repository of well-characterized human specimens available, as well as prospective studies, modern facilities including BSL-3 and flow cytometry/cell sorting, and diverse collaborative opportunities. Please send curriculum vitae and names of three references to: Dr. Joseph B. Margolick, Department of EHS, Johns Hopkins School of Hygiene and Public Health, 615 North Wolfe Street, Room 7032, Baltimore, MD 21205–2179. MFH/F/H, Equal Opportunity Employer.

POSTDOCTORAL FELLOW, IMMUNOLOGY

Position available to study the cellular and molecular events involved in extrathymic T cell development. Focus is on identification of cellular intermediates, extrathymic T cell receptor gene rearrangement and cytokine involvement. Experience in molecular and/or cellular immunology desirable. Send curriculum vitae and names of three references to: Dr. Leo Lefrançois, Department of Medicine MC-1310, 253 Farmington Avenue, Farmington, CT 06030.

C. H. BEST POSTDOCTORAL FELLOWSHIP

Genetic and molecular research in diabetes and cell regulation including signal transduction mechanisms of hormones, receptors, protein kinases, transcription factors, membranes and lipids. Tenable in the Banting and Best Department of Medical Research, University of Toronto, for two years after July 1, 1994, with a competitive stipend available to new Ph.D.'s or candidates with less than two years of postdoctoral training by June 30, 1994. Send curriculum vitae, transcripts and three letters of reference, preferably before January 15, 1994, to: Dr. M. Moran, Fellowship Committee Chair, Banting and Best Department of Medical Research, University of Toronto, Toronto, Ontario, Canada M5G 11.6.

FELLOWSHIPS IN TROPICAL BIOLOGY Smithsonian Tropical Research Institute

Predoctoral, postdoctoral, senior postdoctoral and 10-week graduate student fellowships are available to conduct research at the Smithsonian Tropical Research Institute (STRI) in the Republic of Panama. With a multinational staff of 30 scientists, STRI is an international center for advanced study in tropical biology (ecology, paleocology, evolution, behavioral ecology, plant physiology and molecular evolution) and archeology. STRI provides facilities on Barro Colorado Island near Soberania National Park (tropical moist forest); at marine stations on the Atlantic and Pacific coasts; and at a research library and laboratory complex in Panama City. For applications contact: Office of Fellowships and Grants, Smithsonian Institution, Drawer TB, L'Enfant Plaza, Suite 7300, Washington, DC 20560; Telephone: (202) 287-3271, Deadline: 15 January annually. Awards are based upon merit, without regard to handicap of the applicant.

POSITIONS OPEN

NEW ENGLAND EYE CENTER/TUFTS UNI-VERSITY MEDICAL SCHOOL. POSTDOCTOR-AL FELLOW to study biochemistry of corneal Wound Healing and Infection. Background in molecular biology or experience with techniques to study carbohydrate structure of glycoproteins and glycolipids preferred. Send curriculum vitae and names of three references to: Dr. N. Panjwani, Department of Ophthalmology, Tufts University School of Medicine, 136 Harrison Avenue, Boston, MA 02111.

POSTDOCTORAL FELLOW/ RESEARCH ASSOCIATE

New York University School of Medicine

A postdoctoral position is available to study the mechanisms by which the $\alpha_6\beta_4$ integrin, a basement membrane receptor, interacts with the cytoskeleton and with signaling molecules, and the role of these intracellular interactions in development and tumorigenesis. Current directions include: the analysis of functional domains in the large cytoplasmic domain of β_4 subunit, the characterization of intracellular molecules associating with $\alpha_6\beta_4$ and the regulatory mechanisms involved, and the introduction of dominant negative mutations in transgenic mice and in neoplastic cells. A strong background in molecular techniques and adhesion biology is preferred but the primary requirement will be the ability to work independently on projects involving newly developed techniques. For further information, see: Cell 60: 849–859, 1990; J. Cell Biol. 118: 951–959, 1992; Mol. Biol. Cell 4: 871–884, 1993. Send curriculum vitae and the names and telephone numbers of three references to: Filippo G. Giancotti, M.D., Ph.D., Department of Pathology MSB 544, N.Y.U. School of Medicine, 550 First Avenue, New York, NY 10016; Telephone: (212) 263-5343, FAX: (212) 263-8211. N.Y.U. is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOW/ ASSISTANT RESEARCH SCIENTIST

AVAILABLE IMMEDIATELY at the University of Iowa to study the molecular genetics of hypertension, positions for a Postdoctoral Research Fellow and/or an Assistant Research Scientist. The successful applicant will have access to the resources of the University of Iowa Cardiovascular Research Center and the Cooperative Human Linkage Center (NIH-funded Human Genome Center). The candidate will work under the supervision of Val C. Sheffield, M.D., Ph.D., of the Cooperative Human Linkage Center and with Allyn L. Mark, M.D., of the Hypertension Specialized Center of Research in the Cardiovascular Research Center. Candidates for Postdoctoral Fellow must have a Ph.D. or M.D. with training and experience in molecular biology, genetics and/or biochemistry. Candidates for Assistant Research Scientist must have a Ph.D., or the equivalent combination of education and experience, with at least two years of postdoctoral training and/or experience in molecular biology, genetics and/or biochemistry. All candidates must have experience in molecular biology, DNA technology and genetics. Experience in cloning and characterizations of genes is desired. The University of Iowa is an Amal minorities are encouraged to apply. Please send curriculum vitae with name, telephone numbers and the names of three references to: Personnel, Internal Medicine, SE 315 GH, University of Iowa Hospitals & Clinics, Iowa City, IA 52242.

POSTDOCTORAL FELLOWSHIP. Available for studies on the molecular basis of cell differentiation and cell lineage. Limited to those with recent Ph.D.'s. Prefer background in molecular biology. Stanford is an Equal Opportunity Employer through Affirmative Action. Send curriculum vitae and letters of reference to:

Frank E. Stockdale, M.D., Ph.D. Stanford University School of Medicine, M211 Stanford, CA 94305-5306

POSTDOCTORAL/RESEARCH ASSOCIATE—

Cell Biochemistry/Molecular Biology—Person to participate in research involving regulation of cell proliferation by lipids and related substances in transfected cells. Candidate should be available to start work within two months. Please send curriculum vitae to: SS c/o Human Resources Department, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. Equal Opportunity Employer.



DEPARTMENTAL CHAIR DEPARTMENT OF CHEMISTRY

Applications and nominations are invited for the position of Departmental Chair in the Department of Chemistry at Duke University. All areas of research will be considered for the appointment. It is expected that the senior scientist filling this position will have demonstrated major scientific achievements and international stature in his/her area of research and be able to lead the future development of the Department of Chemistry. Appointment to this tenured professorship is expected to begin on September 1, 1994. Applications and nominations should be sent to Dr. James N. Siedow, Chemistry Chair Selection Committee, Department of Botany, Duke University, Box 90338, Durham, NC 27708-0338.

Buke University

Duke University is An Equal Opportunity/Affirmative Action Employer

Endowed Chair in Developmental Biology Department of Genetics and Cell Biology University of Minnesota St. Paul Campus

Applications from and nominations of distinguished scientists are invited for the newly endowed Ordway Chair in Developmental Biology at the rank of tenured FULL PROFESSOR. Applicants for the Ordway Chair must have an outstanding record of academic achievement; a strong record of attracting financial support for research; and a vigorous research program utilizing cell biology, molecular biology, and genetics applied to problems in eukaryotic development. Substantial start-up funds will be provided.

The Twin Cities Campus of the University of Minnesota, including the College of Biological Sciences in St. Paul and the Medical School in Minneapolis, has made a commitment to build excellence in developmental biology. The Ordway Chair, the recently filled Harrison Chair, and four positions to be filled will expand an established group focusing on developmental biology on the Twin Cities Campus.

The Department of Genetics and Cell Biology, a department in the College of Biological Sciences, has responsibility for both undergraduate and graduate education in Cell and Developmental Biology and Genetics. The successful candidate will be expected to teach and to direct a vigorous research program.

Applications should include curriculum vitae, a statement of research interests, and names of at least three references, and should be sent to: Ordway Chair Search Committee, Department of Genetics and Cell Biology, University of Minnesota, 250 Biological Sciences Center, St. Paul, MN 55108-1095. Applications will be accepted until January 15, 1994. Applicants must have a Ph.D., M.D. or foreign equivalent and at least six years of post-degree experience.

The University of Minnesota is an equal opportunity educator and employer.

Amgen Inc., a global leader in the biotechnology industry, currently has career opportunities for the following professionals:

RESEARCH SCIENTIST IN TOXICOLOGY

Candidates must have a Ph.D. in Toxicology with experience in both exploratory toxicity and regulatory safety testing.

(Job Code OA-SC-LW-001)

RESEARCH ASSOCIATES

Candidates must have a BS/MS in Biology or a related discipline for the following areas:

Developmental Biology

Candidates experienced with *in situ* techniques, including tissue preparation and sectioning, synthesis of radiolabeled and/or hapten-labeled probes and hybridization to sectioned and whole-mount tissue.

(Job Code OA-SC-KS-001)

Neurobiology

Candidates with 5-10 years' experience in primary cultures of neurons and glial cells. You will be responsible for carrying out neurotrophic factor bioassays and data analyses.

(Job Code OA-SC-SL-001)

Receptor Biology

Candidates must have experience in tissue culture, including cell transfection, selection, cloning and bioassays. Experience in molecular biology would be desirable.

(Job Code OA-SC-SJ-001)

Toxicology

Candidates must have 3-5 years of toxicology laboratory experience. Responsibilities will include conducting exploratory studies and monitoring contracted preclinical safety studies. Also, you will participate in the planning, execution, auditing, interpretation and reporting of these studies. (Job Code OA-SC-CL-001)

If you qualify for one of these positions, please FAX OR mail your resume to: FAX: (805) 447-1985, Amgen Inc., Staffing, Job Code (See Above), Amgen Center, Thousand Oaks, CA 91320-1789. Please, principals only.



We are an equal opportunity employer M/F/D/V.

BIOLOGY



ASSISTANT PROFESSORS BOTANY VERTEBRATE PHYSIOLOGY

The Department of Biology at the College of William & Mary invites applications for two anticipated tenure-track faculty positions; one each in botany and vertebrate physiology. The botanist we seek must be highly qualified to teach General Botany. Special emphasis will be placed on the ability of the successful candidate to communicate effectively to very large classes of beginning-level students. We particularly encourage applications from individuals doing research in vascular plant evolution and systematics who could also offer upper level courses in that area. The second position should be filled by a vertebrate physiologist who is sufficiently broad in training to teach animal physiology and an appropriate upper level course in his/ her specialty. Applications from physiologists also capable of teaching General Zoology are especially encouraged. In addition to a commitment to excellence in teaching, both successful applicants will be required to establish vigorous research programs in their respective disciplines. The university has an enrollment of 7.700 students among five schools of which 5,400 are undergraduate. The department has 23 faculty and offers training through the master's level. Preference will be given to applicants with significant postdoctoral experience. Applications should include curriculum vitae with publication list, a statement of teaching and research interests, and the names, addresses, telephone and FAX numbers of three individuals willing to submit letters of reference on request. Applications materials should be sent to Eric L. Bradley, Chair, Department of Biology, College of William & Mary, Williamsburg, VA 23187. Evaluation of applications for funded positions will begin January 3, 1994 and will continue until the positions are filled. The College of William & Mary is an Affirmative Action/Equal Opportunity Employer which welcomes and encourages applications from members of under-represented groups including women, people of color and persons with disabilities

Research Coordinator, ICLARM International Network on Genetics in Aquaculture (INGA)

The International Center for Living Aquatic Resources Management (ICLARM) is a nonprofit, non-governmental, international center with headquarters in the Philippines. ICLARM is a member of the Consultative Group on International Agricultural Research (CGIAR) and is funded by a number of government agencies and foundations.

ICLARM is seeking a coordinator for the International Network on Genetics in Aquaculture (INGA), which has been established to link genetic researchers involved in the development of national fish breeding programs in developing countries.

Qualifications and Experience: A Ph.D. in biological or agricultural sciences; experience in applied genetics as supported by research publications; experience in working in close partnership with National Research Systems in developing countries, and in network coordination, with a knowledge of modern computer-based communication and publishing systems; interpersonal skills to work with scientists and administrators from diverse backgrounds; and fluency in written and spoken English. Working knowledge in any other major language, particularly French, would be an advantage.

The position is based at ICLARM headquarters, Manila, with frequent travel to network member countries. A 3-year contract will be made initially with provision for extension depending upon performance and availability of funds.

Salary and benefits are competitive with those of similar international institutions.

Application: Send application with full documentation, including three references, to: Dr. L.D. Stifel, Director General, ICLARM, MCPO Box 2631, Makati, Metro Manila, Philippines. Phone (63-2) 817-5163, 818-0466; Fax (63-2) 816-3183. Applications should be received before 10 December 1993.

ASSISTANT PROFESSOR OF PHARMACOLOGY

The Department of Pharmacology of Midwestern University invites applications for a full-time, tenure-track position at the rank of Assistant Professor. Applicants must have a Ph.D. in pharmacology or a closely related field and a minimum of 1-2 years of postdoctoral training. The successful candidate will be expected to participate in the teaching of pharmacology courses for medical, pharmacy, and allied health students, and to develop an independent research program that is capable of attracting extramural support. Although the area of research is open, candidates with expertise in the areas of cardiovascular, renal, or autonomic pharmacology are especially encouraged to apply.

Midwestern University was formed in 1993 as a result of the development of new academic programs at the Chicago College of Osteopathic Medicine (CCOM). The university includes 3 colleges [CCOM, The Chicago College of Pharmacy (CCP), and the College of Allied Health Professions (CAHP)]. Located in an attractive suburban setting, 25 miles west of the Chicago Loop, Midwestern University is a growing institution that offers a pleasant work environment and a competitive salary and benefits package. Applications, including a brief summary of research and teaching interests and the names, addresses, and phone numbers of 3 references, should be sent to:

Dr. Venkatray Prabhu Professor and Chairman Department of Pharmacology Midwestern University 555 31st Street Downers Grove, IL 60515

Midwestern University is an Affirmative Action/ Equal Opportunity Employer

ASSISTANT PROFESSOR NONRUMINANT NUTRITION

The Department of Animal Science at Cornell University invites applications for the position of Assistant Professor in Nonruminant Nutrition. This position is a 12-month, tenure-track appointment with approximately 50% teaching and 50% research responsibilities. The successful candidate will have a Ph.D. in animal nutrition, with emphasis on nonruminant farm or companion animal species, and demonstrable ability and desire to teach. Teaching responsibilities will include an intermediate/upper level course on animal nutrition and significant contributions to courses on the nutritional management of domestic animals, as well as advising undergraduate and graduate students. The candidate will be expected to develop a strong, innovative research program in an area of applied nutrition, digestive physiology or metabolism in the area of the candidate's expertise. The Department of Animal Science has approximately 30 faculty with responsibilities divided about equally between teaching (~500 undergraduate students), research (~70 graduate students) and extension. Excellent opportunities exist for teaching cooperatively within a well-developed curriculum and for collaborative research with strong existing programs in animal nutrition. Salary will be commensurate with training and experience. An attractive fringe benefits package is available. Applicants should submit a letter of application, including a statement of teaching and research interests and goals, resume, academic transcripts, and the names of three referees to: H.F. Hintz, Chair, Department of Animal Science, 149 Morrison Hall, Cornell University, Ithaca, NY 14853-4801 (Tel607-255-2862; Fax 607-255-9829). Application deadline is January 31, 1994. The position will be available July 1, 1994. Cornell University is an Equal Opportunity, Affirmative Action employer; minorities, women and the handicapped are encouraged to apply.

Faculty Positions Department of Pharmacology The University of Michigan

The Department of Pharmacology is seeking applications for three tenure-track positions at the ASSISTANT, ASSOCIATE, or FULL PROFESSOR level. Applicants should have a Ph.D. and/or M.D., significant postdoctoral experience, and a record of excellent research accomplishment. We are seeking outstanding individuals with research experience and interests that augment current departmental programs in the areas of cancer biology and therapeutics, cardiovascular pharmacology, drug metabolism and pharmacogenetics, endocrinology and receptor pharmacology, neuropharmacology, and site-specific drug delivery. The successful candidates will be expected to establish and maintain active, externally funded research programs and to participate in teaching medical students and other health professionals, as well as postdoctoral students. An attractive start-up package including new facilities and generous start-up funds will be available. Send curriculum vitae, a brief description of current and future research directions and request at least three letters of reference be sent to: Dr. Paul F. Hollenberg, Chair Designate, Department of Pharmacology Search Committee, Department of Pharmacology, The University of Michigan Medical School, 6322 Medical Science I, Ann Arbor, MI 48109-0626.

The University of Michigan is an Affirmative Action/Equal Opportunity Employer. Applications from qualified women, minorities and/or disabled individuals are encouraged.

CHIEF OF MOLECULAR DIAGNOSIS

The Chief of Molecular Diagnosis will run a clinically-oriented section in the Department of Pathology with emphasis on assays for tumor diagnosis and prognosis, viral diagnosis and other genetic tests. The successful candidate should be a physician, have extensive training in molecular diagnostic techniques, preferably several years of experience in the field, and be able to develop an active research program to support the extensive clinical and experimental oncology programs throughout the institute. There is ample opportunity for collaboration with clinical and experimental investigators. The laboratory will complement one devoted to in situ hybridization techniques in anatomic pathology. Interested candidates should forward their CV and three references to:

John J. Brooks, M.D., MRCPath Chairman, Department of Pathology Roswell Park Cancer Institute Elm & Carlton Streets Buffalo, NY 14263

Roswell Park Cancer Institute is an M/F/D/V Affirmative Action Employer.



SCIENTIST

Drug Metabolism

SmithKline Beecham Pharmaceuticals, a worldwide leader in pharmaceutical research, is seeking a scientist with a background in Biochemistry to join our Drug Metabolism Department.

The scientist will assist in the design and conduct of *in vitro* drug metabolism studies directed at understanding mechanisms of metabolism of novel therapeutic agents, and the effects of these agents on cytochrome P450 and other drug metabolizing enzymes. The position requires a working knowledge of biochemical techniques used for *in vitro* metabolism studies, quantitative analysis of drugs and metabolites in biological media using HPLC and radioisotopes, and experience with handling and dosing of laboratory animals and obtaining biological samples. This position requires a B.S. or M.S. degree in chemistry or a biological science plus 2-5 years of related work experience.

Located in our state-of-the-art research facility in suburban Philadelphia, near Valley Forge, PA, we offer a challenging, stimulating environment in which to grow and excel, as well as a competitive compensation/benefits/relocation package. For confidential consideration, please forward your resume to: SmithKline Beecham Pharmaceuticals, Sr. Employment Administrator, #M084, PO Box 1539, King of Prussia, PA 19406-0939. We are an Equal Opportunity Employer, M/F/D/V.

SmithKline Beecham

Pharmaceuticals

Challenging the natural limits.

HEAD DEPARTMENT OF UROLOGIC SURGERY UNIVERSITY OF MINNESOTA

The University of Minnesota invites applications or nominations for the position of tenured Professor and Head of the Department of Urologic Surgery. The successful candidate will direct a program at the University and its affiliated hospitals. The University seeks a board certified urologist of national prominence who will promote the Department's tradition of academic excellence and scientific accomplishments.

Qualifications of candidates for the rank of Professor with tenure must include national distinction in urology and demonstrated leadership in administration, research, patient care, and teaching. A commitment to graduate and post-graduate education is necessary. The deadline for receipt of applications/nominations is March 1, 1994. Starting date is negotiable. Interested applicants should send a copy of their curriculum vitae to:

John P. Delaney, M.D., Ph.D. Chair, Urologic Surgery Search Committee University of Minnesota Medical School Box 89 UMHC 420 Delaware Street S.E. Minneapolis, Minnesota 55455-0392

The University of Minnesota is an equal opportunity education and employer.

The University of Texas at San Antonio Director Division of Life Sciences

Applications/nominations are invited for the position of Director of the Division of Life Sciences at The University of Texas at San Antonio (UTSA). The Division Director is the chief administrator of the Division of Life Sciences and reports to the Dean of the College of Sciences and Engineering. The Division of Life Sciences offers B.S. and M.S. in Biology, M.S. in Biotechnology, and a Ph.D. in Biology with a program emphasis in neurobiology.

UTSA is a comprehensive, metropolitan University that is the fastest growing university in the state. The City of San Antonio combines a rich cultural heritage with a modern focus on education, research and technology. UTSA is a primary contributor to the region's economic vitality and quality of life through its serve to the multicultural population of San Antonio and South Texas.

Candidates must have earned a doctorate in any area of the biological sciences and must qualify for appointment at a tenured professor. Successful teaching experience, proven administrative capability and demonstrated achievement of research excellence are requirements of this position.

This position is a full time, twelve month appointment beginning September 1, 1994. Salary is competitive and commensurate with qualifications and experience.

Application/nomination should include a letter of interest (or nomination), a resume, and the names, addresses and telephone numbers of at least three references. Send to:

Chair, Life Sciences Director Search Committee Office of the Dean College of Sciences and Engineering 6900 North Loop 1604 West The University of Texas at San Antonio San Antonio, Texas 78249-0661

Application/nomination must be received by January 31, 1994.

UTSA is an Equal Opportunity/Affirmative Action Employee. Minorities and women are encouraged to apply.

POSTDOCTORAL RESEARCH ASSOCIATE POSITION available immediately to study cell cycle regulation of mammalian DNA topoisomerase II or alterations in topo II associated with drug resistance. Experience in molecular biology and/or the study of transcription factors will be favored. Previous background in the study of topoisomerases is an advantage. Submit curriculum vitae with names and telephone numbers of three references to: Dr. Parker Suttle, University of Tennessee, Department of Pharmacology, 874 Union Avenue, Memphis, TN 38163. Equal Employment Opportunity/Title IX/Section 504/ADA/Affirmative Action Employer.

The University of Pennsylvania, Department of Pathobiology seeks to fill POSTDOCTORAL RE-SEARCH POSITIONS to study the molecular mechanisms that regulate the expression of contractile proteins in smooth muscle during growth and in pathological conditions. Candidates with backgrounds in cell biology and/or molecular biology are invited to apply. Our projects are to study the pathogenetic mechanisms for smooth muscle diseases at cellular and molecular levels. Trainees will have ample opportunities to collaborate, learn and to publish in a very exciting area. Send curriculum vitae and 3 references to: Dr. Samuel Chacko, Department of Pathobiology, 389E Veterinary Medicine, University of Pennsylvania, 3800 Spruce Street, Philadelphia, PA 19104–6051. The University of Pennsylvania is an Affirmative Action/Equal Opportunity Employer.

RESEARCH ASSOCIATES. Two positions are available immediately to (a) identify genes that could be involved in growth and development of shrimp, and (b) examine genetic diversity and gene expression of wildlife species. Recent Ph.D. or D.V.M. graduate with expertise in molecular genetics/biology and at least two years of experience with cDNA synthesis and cloning, library screening, and sequencing techniques is desirable. Send curriculum vitae and names of three references to: Dr. Acacia Alcivar-Warren, Tufts University, School of Veterinary Medicine, Department of Comparative Medicine, 200 Westboro Road, North Grafton, MA 01536.

RESEARCH ASSOCIATE I

Outstanding opportunity exists at the Cancer Institute of New Jersey–Robert Wood Johnson Medical School of the University of Medicine and Dentistry of New Jersey for a qualified Research Associate I. This position is responsible for the independent conduct of research involving molecular biological techniques for the analysis of proteins, DNA, and RNA. Duties will also involve tissue culture techniques and handling laboratory animals. The associate will adopt and establish research protocols, and research and compose sections of publications and grants.

Qualified candidate will possess a Ph.D. degree in microbiology, molecular biology, biochemistry, pharmacology or a related science plus two years of laboratory experience which shall have involved a minimum of one year of experience with molecular technologies. In-depth knowledge of radioactive detection systems, tissue cultures and laboratory animal is required, as is knowledge of thrombosis and homeostasis and experience with cancer cells.

Qualified candidates should send their résumé to: Ms. Mila Gendrano, Human Resources Department, UMDNJ, CN 6810, Piscataway, NJ 08855–6810. UMDNJ is an Affirmative Action/Equal Opportunity Employer, mt/fd/v, and a member of the University Health System of New Jersey.

RESEARCH ASSOCIATE position at a small medical school in Atlanta, Georgia, is now available to study cellular mRNA distribution, transport, and the effects of viral protein(s) on these processes. Various molecular techniques will be used including in situ hybridization and cell fractionations. Ph.D., or M.D. with previous experience in cell culture, DNA mediated transformation, and a strong background in molecular techniques is desirable. Send curriculum vitae and bibliography to: Dr. Vincent C. Bond, Department of Biochemistry, Morehouse School of Medicine, 720 Westview Drive S.W., Atlanta, GA 30310–1495. Deadline: January 15, 1994.

POSITIONS OPEN

RESEARCH ASSOCIATE

Outstanding opportunity for a Ph.D. or M.D. scientist with postdoctoral research experience to investigate the role of the newly described cell adhesion molecule, PECAM-1 (CD31) in vascular cell interactions. (see Science 247:1157, 1990; J. Cell Biol. 114:1059, 1991; J. Cell Biol. 119:239, 1992) The successful candidate should be able to work with a high degree of independence, and have well-developed skills in cellular, molecular, and biochemical techniques. Studies will be conducted at the newly constructed 50,000 square foot Blood Research Institute. Ample laboratory space, startup funds, and state-of-the-art equipment are available. For further information, please send a letter detailing your specific training and research institute, The Blood Center of Southeastern Wisconsin, 1701 West Wisconsin Avenue, Milwaukee, WI 53233. An Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE Receptor-Ligand Interactions

A postdoctoral position is available to study ligand-receptor interactions in retinoid biology. The goal of the project is to characterize proximate ligands bound to receptors in whole cells using a novel technique, ligand trapping (Levin et al., Nature 355, 359). Experience with HPLC analyses, receptor biology, and an interest in retinoids are required. This project is part of a team effort to understand the molecular mechanisms of retinoid action. The position is an opportunity to pursue basic research in retinoid biology in an industrial setting. Please send curriculum vitae and a list of references to: Dr. Arthur A. Levin, Department of Toxicology and Pathology, Hoffmann–La Roche Inc., Nutley, NJ 07110–1199; FAX: (201) 235-7636. We are an Equal Opportunity Employer.

COLUMBIA UNIVERSITY

RESEARCH ASSOCIATE in the Department of Pharmacology, College of Physicians & Surgeons of Columbia University. To study modulation of ion channels by protein kinases. Applicant must have experience in the molecular biology and biochemistry of ion channels including PCR, site-directed mutagenesis and protein expression systems. Duties include lab management. Send curriculum vitae and three letters of recommendation to: Dr. David H. Solomon, Department of Pharmacology, Columbia University, 630 West 168th Street, New York, NY 10032.

Columbia University is an Equal Opportunity/ Affirmative Action Employer.

GLYCOBIOLOGIST—A position is available for a qualified Ph.D. experienced (3 or more years desirable) in synthetic carbohydrate chemistry, analysis of carbohydrates, and enzymology of complex carbohydrates. The responsibility includes construction of glycopeptides and isolation of enzymes related to complex carbohydrates as well as analysis of carbohydrates. Salary commensurate with qualifications. Direct inquiries in writing to: Dr. Y. C. Lee, Biology Department, Johns Hopkins University, 3400 North Charles Street, Baltimore, MD 21218 USA.

FISHERIES STOCK ASSESSMENT SPECIALIST NEW ZEALAND FISHING INDUSTRY BOARD Wellington, New Zealand

The Board invites qualified persons to apply for the post of Fisheries Stock Assessment Specialist. Responsibilities include advising the Board and the industry on current and long-term stock assessment and management issues, representing the Board at meetings, and coordinating industry responses to proposed management actions. Applicants should possess an advanced degree in fisheries science or a related field, have practical experience with fisheries stock assessment techniques and fisheries management, and have experience making scientific presentations to a wide range of audiences. The term of employment is 1 to 2 years, renewable thereafter. To apply, send a résumé and the names of three references to: Dr. E.K. Pikitch, School of Fisheries, WH-10, University of Washington, Seattle, WA 98195. (FAX: (206) 685-7471).

POSITIONS OPEN

POSTDOCTORAL RESEARCH ASSOCIATE

Position is being funded through the University of Maryland in cooperation with USDA, Agricultural Research Service to study the role of nitric oxide and nitric oxide synthetase in the cascade of metabolic perturbations associated with disease stress in cattle. Applicants should have a strong background in molecular nucleic acid techniques and/or enzymology with particular regard to differentiating constitutive and inducible enzyme activity. Initial salary \$30,000 plus benefits. Please send letter of interest, statement of technical expertise and experience with NO/NOS, curriculum vitae and three letters of recommendation to: Dr. T. H. Elsasser, USDA/ARS, Ruminant Nutrition Lab, B-200, Room 120, Beltsville, MD 20705; Telephone: 301-504-9100; FAX: 301-504-8162. The University of Maryland and USDA are Equal Employment Opportunity Employers.

POSTDOCTORAL RESEARCH ASSOCIATE

A postdoctoral position is available to study cytoplasmic RNA processing as it relates to translational control in early *Xenopus* and mouse development. One useful reference is *Genes & Dev.* 6:2580 (1992). Those interested who have experience in developmental biology or molecular biology should send complete curriculum vitae together with names, addresses and telephone numbers of three persons who may act as references to: **Dr. Joel Richter, c/o Human Resources, Worcester Foundation for Experimental Biology, 222 Maple Avenue, Shrewsbury, MA 01545, USA.** *An Equal Opportunity/ Affirmative Action Employer, M/F/D/V*.

RESEARCH SCIENTIST to conduct research in field of heat-induced gene expression, thermotolerance development and drug interaction, using different human cancer cell lines and utilizing sophisticated methods of immunology, protein chemistry and recombinant DNA techniques. Organize and correlate research data, and prepare publications. Devise new methodology and laboratory techniques based upon findings. Require Master's degree in Biology and 3 years of experience as a Research Associate. Experience must have been in post-doctoral research studying gene expression. Must submit one international research journal publication in topic related to expression of heat shock genes and thermotol-erance development and evidence of training in radioactive isotopes, such as a certificate from Continuing Education Center, 40 hours per week, 8:00 a.m. to 5:00 p.m. \$30,000 per year. Send résumés to: 7310 Woodward Avenue, Room 415, Detroit, MI 48202. Ref. No. 93393. Employer Paid Ad.

PHARMACOLOGIST/MOLECULAR BIOLOGIST/ONCOLOGIST

The Division of Pediatric Pharmacology & Toxicology and the Cancer Institute of New Jersey at the Robert Wood Johnson Medical School of the University of Medicine and Dentistry of New Jersey and Rutgers University are recruiting an M.D. or Ph.D. scientist to explore the unique aspects of cancer in children or the development of new chemical entities to treat cancer in children. Research start-up support will be provided. For further details please write to: Dr. George Lambert, Division of Pediatric Pharmacology and Toxicology, UMDNJ-Robert Wood Johnson Medical School, One Robert Wood Johnson Place, New Brunswick, NJ 08903. UMDNJ-RWJMS is an Affirmative Action/Equal Opportunity Employer, M/F/D/V, and a member of the University Health System of New Jersey.

RESEARCH PHYSIOLOGIST (Molecular Biology/Immunology)

The Denver Wildlife Research Center, U.S. Department of Agriculture, Lakewood, Colorado, is recruiting for a Research Physiologist (Molecular Biology/Immunology) to serve on a biotechnology research team in the Product Development Section to develop immunocontraceptive and other immunological methods to alleviate problems caused by vertebrate pest species. This is a two-year term position at a GS-11 grade level and the beginning salary is approximately \$33,623 per year. All inquiries should be directed to: Dr. R. D. Thompson at Denver Federal Center, Building 16, P.O. Box 25266, Denver, CO 80225–0266. All respondents will be notified how to apply for the position when it is advertised.

The U.S. Government is an Equal Opportunity Employer.

ASSISTANT PROFESSOR MOLECULAR ANIMAL SCIENCE

The Department of Animal Science at Cornell University invites applications for two 12-month, tenure-track positions of Assistant Professor of Molecular Animal Science. Responsibilities include 50% research and 50% teaching in the area of applying contemporary molecular approaches to problems in domestic animal biology. The primary teaching components consist of new offerings in methodology and laboratory-based instruction. Research responsibilities are to develop a strong innovative program in any of the disciplines supported by the department. In the broadest of terms, these include: quantitative/molecular genetics of commercially important traits; embryology/developmental biology; and endocrinology/metabolism/nutritional biochemistry of processes such as growth, reproduction and lactation. The Department of Animal Science has approximately 30 faculty with responsibilities divided about equally between teaching (~500 undergraduate students), research (~70 graduate students), and extension. Excellent opportunities exist for collaboration within the Department and University. Successful candidates will need Ph.D., post-doctoral training and experience in a wide array of current molecular techniques. A solid background in Animal Science is preferred and demonstrable skills or potential for teaching and contributing to the total departmental program are essential. Salary will be commensurate with training and experience. An attractive fringe benefits package is available. Applicants should send a letter of application, statement of research and teaching interests and goals, resume, academic transcripts and names and addresses of three referees to: H.F. Hintz, Chair, Department of Animal Science, 149 Morrison Hall, Cornell University, Ithaca, NY 14853-4801 (Tel 607-255-2862; Fax 607-255-9829). Application deadline is January 31, 1994. Positions available July 1, 1994. Cornell University is an Equal Opportunity, Affirmative Action employer; minorities, women and the handicapped are encouraged to



Pharmaceuticals, Inc.

Khepri Pharmaceuticals, Inc. is a biopharmaceutical company committed to the discovery and development of proteases and protease inhibitors as therapeutic agents. Our expertise and proprietary position place us at the forefront of this field. We are currently seeking to fill the following positions.

- 1. Analytical Protein Chemist with Quality Control experience. Candidates should be knowledgeable regarding the characterization of therapeutic parenteral proteins for IND submission. Knowledge of requirements for assay validation and operating a lab under GLP's is also desirable. Qualified candidates will have a B.S., M.S. or Ph.D. in chemistry, protein chemistry, or pharmaceutical science and a minimum of 5 years of industrial experience.
- 2. Formulations Protein Chemist experienced in formulating therapeutic parenteral proteins. Experience in characterizing protein stability and protein aggregation characteristics is desirable. Also desired, is experience in lyophilization, filling, and finishing. Qualified candidates will have an M.S. or Ph.D. in protein chemistry or pharmaceutical science and a minimum of 5 years of industrial experience.
- 3. Analytical Immunochemist with experience in developing immunoassays. This person will be responsible for development and support of immunoassays used in the development of processes for the production of therapeutic proteins. The individual should have experience in measuring contaminating proteins in purified protein products. Knowledge of the requirements for assay validation is also required. Qualified candidates will have a B.S., M.S. or Ph.D. in immunology or biochemistry and a minimum of 5 years of industrial experience.
- **4.** Cell Biologist with experience in developing cell lines for the production of therapeutic proteins. This person will be responsible for developing CHO cell lines in order to increase cell culture productivity. Experience with both secreted and cell membrane associated protein production is desired. Also desired, is experience with cell banking and characterization as required for FDA submissions. Qualified candidates will have an M.S. or Ph.D. in cell biology and a minimum of 3 years of industrial experience.
- 5. Assay Specialist to perform product characterization assays in support of both research and process development efforts. Experience in immunoassays, LAL assays, and HPLC based assays is desired. Also desired, is experience working in GLP environment. Qualified candidates will have a B.S. or M.S. in chemistry or immunochemistry and a minimum of 3 years of industrial experience.

Candidates should submit Curriculum Vitae, statement of research interests and references to: Khepri Human Resources Dept., 260 Littlefield Ave., South San Francisco, CA 94080. Please indicate position # you are interested in. E.O.E.

CELL /MOLECULAR PHYSIOLOGIST THE UNIVERSITY OF CHICAGO

The Committee on Cell Physiology invites applications for a FACULTY APPOINTMENT for qualified candidates in the area of cellular and molecular physiology. The Committee on Cell Physiology is an interdepartmental committee made up of 30 faculty members of the Biological Science Division whose research interests cover the areas of membrane receptors, signal transduction and second messenger mechanisms, membrane transport, structure and function of ion channels, cytoskeleton, secretory pathways, cell growth regulation and oncogene function. The Committee administers a graduate program in Cellular and Molecular Physiology which provides training to 24 graduate students. The successful candidate will have research interests complementing those of the Committee members and will have the ability to teach in appropriate graduate and medical school courses. The tenure track appointment of the candidate will be in the Department of Pharmacological and Physiological Sciences. Applicants should provide a brief statement of research interests and plans, curriculum vitae and bibliography, and the names of three individuals who are willing to write letters of recommendation to:

> Dr. Mitchel Villereal, Chairman Cell Physiology Committee 947 E. 58th St. The University of Chicago Chicago, IL 60637

The University of Chicago is an Equal Opportunity Employer.

SENIOR ECOLOGIST

The Department of Biological Sciences is seeking an established scientist in ecology to join the faculty and serve as Director of the Pymaturning Laboratory of Ecology, a field station located 100 miles north of Pittsburgh, which has undergone significant recent renovation. The Laboratory is a residential field station, fully-equipped for research and teaching with field sites, dormitories, faculty cabins, a full dining hall, a library, research buildings, teaching laboratories and lecture hall. A full-time staff of four, including a resident manager, report to the Director who reports to the Department Chair. The Laboratory is fully integrated into the research and teaching programs of the Department. We are seeking a person with a funded research program, strong teaching record, and good interpersonal skills who will provide leadership for the research and teaching mission of the Laboratory, train graduate students, and participate in undergraduate education. The Department has just hired two additional ecologists and intends to recruit one or two more after this senior appointment. The appointment will be made at the level of tenured Associate or Full Professor and will be available as early as September 1994, subject to budgetary approval. In order to ensure full consideration, applications must be received by January 14, 1994. Applicants should send a curriculum vitae, copies of recent publications, a statement of research interests and future plans, and arrange to have at least three letters of reference sent

> Dr. William Searcy Ecology Search Committee Department of Biological Sciences University of Pittsburgh Pittsburgh, PA 15260 (412) 624-4266

The University of Pittsburgh is an Equal Opportunity/Affirmative Action employer. Women and minorities are especially encouraged to apply.

Group Supervisor Molecular Biology

Genetic Therapy, Inc., a leading biotechnology company, is working to develop retroviral-mediated and other gene transfer methods applicable to human gene therapy. The Molecular Biology Core Laboratory is seeking a scientist to lead a new group that will be responsible for the evaluation of materials obtained from several clinical trials. Candidate should possess a Ph.D. and have a strong background in molecular biology. Preference will be given to candidates familiar with GLPs, GMPs and associated documentation.

GTI offers a stimulating and challenging environment, with competitive salaries and benefits. Please send a resume, along with the names and addresses of two references to:



Genetic Therapy, Inc. Human Resources -MBC/Sup 19 Firstfield Road Gaithersburg, MD 20878

GTI is an equal opportunity employer.

1994 Recruitment Advertising





11 February

Bonus distribution:

Biotechnology/Pharmaceutical Job Fairs

11-12 February, New Jersey 25-26 March, La Jolla, CA

Women In Science

11 March

Bonus distribution:

Biotechnology/Pharmaceutical Job Fairs

25-26 March, La Jolla, CA 22-23 April, Cambridge, MA

For recruitment advertising deadlines or reservations call Janis Crowley at 212-496-7704.

In Europe, contact Annemarie Vis on 44-223-302-067.

SCIENCE

East Coast Biotechnology/ Pharmaceutical Careers

1 April

Bonus Distribution:

Biotechnology/Pharmaceutical Iob Fairs

22-23 April, Cambridge, MA 13-14 May, Chevy Chase, MD

Experimental Biology (FASEB) 24-28 April, Anaheim



B.S./M.S. Careers

26 August
Bonus distribution:
Top 50 Universities in the U.S.-Chemistry and Biology Depts.

Careers IV

23 September
Bonus distribution:
Biotechnology/Pharmaceutical
Iob Fairs

23-24 September, La Jolla, CA 30 September, 1 October, Cambridge, MA

Three Postdoctoral Research Associates Positions

A private, established biotechnology company located in the Boston, Massachusetts area is recruiting scientists to staff its newly constructed research facility. The company is a pioneer in the development of therapies based on the circadian regulation of mammalian lipid and carbohydrate metabolism as well as immunology. Associates will interact with a multidisciplinary group of scientists including chemists, cell biologists, endocrinologists, immunologists, molecular biologists, physiologists, and chronobiologists to study circadian neuroendocrine regulation of metabolism in Type II diabetes at the cellular and organismal levels. The company seeks to fill the following positions:

Hepatic Metabolic Biochemist

Applicants should have a Ph.D. with a strong background in biochemistry and with experience in hepatocyte isolation and primary culture, cellular triglyceride and lipoprotein metabolism as well as interactions between hepatic glucose output and free fatty acid oxidation.

Hypothalamic Neuroscientist

Applicants must have a Ph.D. in a neurophysiology related area, and must have experience in microdialysis of hypothalamic nuclei and HPLC analysis of neurotransmitters and their metabolites, iontophoresis techniques and hypothalamic anatomy and physiology. An understanding of hypothalamic regulation of lipid and carbohydrate metabolism is desired.

Cellular Immunologist

Candidates should have a Ph.D. with a strong background in cellular immunology or equivalent to study neuroendocrine regulation of macrophage activation, lymphokine production, and T cell activation as they relate to cancer and/or autoimmune disease. Previous experience in macrophage, natural killer cell, and T cell function as well as inflammatory response processes and experience with animal models of autoimmune disease, inflammation, and/or neoplasia is desired.

Applicants should send a complete curriculum vitae, a brief description of research experience, and names of three references to:

Science Box Number 43 1333 H Street, NW Washington, DC 20005

FACULTY POSITIONS IN BIOCHEMISTRY St. Jude Children's Research Hospital

St. Jude Children's Research Hospital, Danny Thomas, Founder, a private research institute, is engaged in a major expansion of its facilities and scientific activities. A new research building which opened in August, 1991, provides 240,000 square feet of new laboratory space to house the institute's basic science programs. As part of the expansion, new faculty positions are now available in the Department of Biochemistry. Although preference will be given to applicants who have recently completed postdoctoral training and are seeking positions at the level of Assistant Member, investigators with appropriate research interests and qualifications will be considered for positions of higher faculty rank. Candidates with programs focusing on the regulation of cell growth, differentiation and transformation, the biochemistry and molecular biology of signal transduction, and mechanisms of gene regulation are particularly encouraged to apply. Opportunities exist for collaborative interactions with basic research programs in Virology and Molecular Biology, Immunology, Tumor Cell Biology and Pharmacology, as well as with clinical investigators in Hematology/Oncology and Infectious Diseases. In addition to new facilities and excellent start-up funds, salaries are nationally competitive and include a generous benefits package. A strong institutional commitment to its faculty ensures stability in program development and continuity of research activities.

Applicants should submit a curriculum vitae, a letter summarizing their research accomplishments and goals, and the names of three references to:



Dr. James N. Ihle, Chairman Department of Biochemistry St. Jude Children's Research Hospital 332 North Lauderdale Memphis, TN 38105 USA

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MASSACHUSETTS INSTITUTE OF TECHNOLOGY

ENVIRONMENTAL MICROBIOLOGIST

The Department of Civil and Environmental Engineering seeks a microbiologist for a tenure-track faculty appointment in the Ralph M. Parsons Laboratory. Applicants should have backgrounds in environmental microbiology, contaminant biodegradation, microbial ecology, or environmental biotechnology. Experience in molecular biology procedures or groundwater microbiology is desirable. Primary responsibilities include conducting an active sponsored research program, teaching undergraduate and graduate courses, advising students, and collaborating with other faculty members. Applicants should send a C.V., undergraduate and graduate transcripts, a description of teaching and research interests, and a list of references by February, 1994 to: Professor Harold F. Hemond, Faculty Search Committee, 48-419, Massachusetts Institute of Technology, Cambridge, MA 02139, M.I.T. is an Equal Opportunity Affirmative Action Employer.

FACULTY POSITIONS MICROBIOLOGY, PHARMACOLOGY AND THE CANCER CENTER

MEDICAL COLLEGE OF WISCONSIN

The Departments of Microbiology and of Pharmacology and Toxicology in conjunction with the Cancer Center are seeking highly qualified applicants for Assistant or Associate Professorships in the tenure-track. Preference will be given to investigators employing molecular and biochemical approaches to the study of oncogenes, receptors and signaling in malignant and transformed cells, the role of growth factors and cytokines, pathogenesis of angiogenesis, or mechanisms of action of or resistance to chemotherapeutic agents. Applicants must have a doctoral degree in a relevant field, a minimum of two years of post-doctoral experience, a strong record of research accomplishments, a commitment to developing an independent, extramurally funded research program and a willingness to participate in graduate and medical team teaching. Modern facilities include core laboratories for peptide/DNA synthesis and analysis, flow cytometry, LC/GC/MS, NMR, and ESR. Competitive salaries, space and start-up funds are available. Applicants should send a curriculum vitae, statement of research interest and plans, three relevant reprints, and the names of three references to:

> Molecular Search Committee The Cancer Center Medical College of Wisconsin 8701 Watertown Plank Road Milwaukee, WI 53226

MCW is an Affirmative Action/Equal Opportunity Employer M/F/D.

PRINCETON UNIVERSITY DEPARTMENT OF GEOLOGICAL AND GEOPHYSICAL SCIENCES AND PRINCETON ENVIRONMENTAL INITIATIVE

Princeton University is seeking applicants for a faculty appointment, to be made at the full professor level, in the area of atmospheric science. The appointee will complement existing strengths in global and mesocale meteorology, climate dynamics, oceanography, and atmospheric and oceanic chemistry. The appointee will have opportunities to collaborate in research projects on these topics, and on related topics in the Program in Atmospheric and Oceanic Sciences, the Geophysical Fluid Dynamics Laboratory of NOAA, and the Program in Water Resources and will have major involvement in the new Princeton Environmental Initiative

Send curriculum vita, statement of research interests, and the names, addresses, and phone numbers of at least three references to John Suppe, Chairman, Department of Geological and Geophysical Sciences, Princeton University, Princeton, NJ 08544-1003, (609) 258-4100, FAX (609) 258-1274. Applications should be received by 31 January 1994. Princeton University is an Affirmative Action Equal Opportunity Employer and does not discriminate against individuals on the basis of personal beliefs or characteristics such as political views, religion, national or ethnic origin, race, color, sex, sexual orientation, age, marital status, veteran status or disabilities unrelated to job or program requirements.

BIOCHEMIST Dental Membranes

A major sunbelt biomedical device manufacturer has an excellent opportunity in research/product development in our Tissue Technology group.

Qualified candidates will have a strong background in protein biochemistry and additional experience within one or more of the following areas: development of analytical methods, dental biomaterials, properties of membranes, biomechanics, collagen treatment and properties, animal surgery, sterilization, product development, and product engineering. Our selected candidate will have a science degree and several years of relevant experience. Individuals with advanced degrees relevant experience. Individuals with advanced degrees will be given special consideration. Exceptional communication skills and a knowledge of word processing are essential. This position is accompanied by a competitive salary/benefits package.

Please send your résumé in confidence to: NAS Confidential Reply, P.O. Box 572056, Department 11 HN 22, Houston, TX 77257–2056.

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NEUROMUSCULAR DISEASE GENETICS: ASSOCIATE RESEARCH SCIENTIST position available for an expert molecular geneticist (M.D. preferred) to conduct studies on the molecular basis of human hereditary disorders of muscle glycogen metabolism, beginning January 1, 1994. Address inquiries to: Dr. Salvatore DiMauro, Department of Neurology, Columbia University College of Physicians and Surgeons, 630 West 168th Street, New York, NY 10032. Columbia University is an Equal Opportunity/Affirmative Action Employer.

ANNOUNCEMENTS

CARNEGIE MELLON

Graduate Study in Engineering and Public Policy (EPP) leads to a research-based Ph.D. specializing in policy issues in areas such as: telecommunication, computer and other information technologies; energy and environmental systems (including climate change); technical issues in international security; manufacturing and industrial policy; and risk analysis. Applicants must hold B.A. or B.S. in engineering, physical sciences, or math. Education or experience beyond the B.S. very desirable. Contact: Denise Murrin-Macey, Engineering and Public Policy (07), Carnegie Mellon, Pittsburgh, PA 15213.

MEETINGS

PHARMACEUTICAL DESIGN: ANTI-SENSE, TRIPLE HELIX, NUCLEIC ACID BINDING DRUGS.

January 31-February 1, 1994: Hyatt Rickeys, Palo Alto, California.

Alto, California.

SPEAKERS: F. Arcamone, P. Aristoff, D. Boger, D. Burger, C. Cantor, D. Cook, W. Denny, C. Edwards, C. Helene, M. Hogan, L. Hurley, J.S. Lazo, S.J. Lippard, J.W. Lown, P. Miller, S. Mirkin, P. Nielsen, J.J. Rossi, D.S. Sigman, J. Stubbe, Y. Sugiura, A.H.J. Wang, M. Waring, G. Zon. Organizers: James Larrick; Cynthia Edwards; Abstracts due January 15, 1994. Sponsor: Palo Alto Institute of Molecular Medicine; 2462 Wyandotte Street; Mountain View, CA 94043; FAX: 415-694-7717; Telephone: 415-694-4996.

POSITION WANTED

POSTDOCTORAL POSITION SOUGHT. Postdoctoral Fellow seeking further training and research experience in Neuropharmacology. Available and willing to relocate. Experience in Behavioral Pharmacological to relocate. Experience in Behavioral Pharmacological studies with special reference to Cholinergic system, Calcium Channels, Aging, Affective disorders, Drug abuse, also Cardiovascular studies. Please contact: Dr. A. P. Sen, Bouve College of Pharmacy and Health Sciences, Northeastern University, 211 Mugar Building, Boston, MA 02115. Telephone numbers: (617) 373-3916, (617) 373-3202, (617) 267-7969. FAX: (617) 266-6756.

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