sex, age, and experience on asymmetries, although the data are complex and the parallels sometimes strained. At a behavioral level, there is evidence for a right-hemispheric dominance in the representation of emotion and of spatial processing in the rat, which provides further parallels with human cerebral asymmetry. But again, the parallels are not achieved without strain, and as Geschwind points out in the final chapter even the human evidence is not straightforward.

Discussing the inheritance of lateralization, Collins focuses on his studies of handedness in inbred mice and argues eloquently that genes can control the degree but not the direction of asymmetry. Asymmetries of consistent direction, such as human handedness, are due to asymmetrical gradients external to the genome, or "world biases." Genes can control asymmetries only indirectly, by influencing the responsiveness of the organism to these external gradients. Unfortunately Collins does not discuss Policansky's data (mentioned elsewhere in the volume) on the inheritance of leftward or rightward placement of the eyes in flatfish. These data seem to imply that there is some direct genetic control over the direction of an asymmetry, and it surely requires some special pleading to reconcile them with Collins's thesis.

Overall, the volume offers timely and useful information, although there is a lack of balance in the species represented. Most conspicuously missing are the nonhuman primates, which are scarcely mentioned except by LeMay in her review of anatomical asymmetries; yet they surely can tell us most about the origins of our own laterality. There is also too much overlap in the chapters on asymmetries in the rodent brain. But these lapses are compensated for by the chapter by Geschwind, who died in the fall of 1984. Erudite, provocative, opinionated, always interesting, Geschwind manages to place animal asymmetry in its broad biological, historical, and philosophical contexts. His distinctive voice will be missed in future volumes on lateralization.

Finally, a plea: Geschwind remarks that if a model of hand dominance is to be found among nonhuman species, the ideal animal, on a priori grounds, might be the raccoon. Some years ago, at a conference on lefthandedness held in San Francisco, a lay member of the audience volunteered the information that among some 30 raccoons he observed regularly the great majority were right-handed. Would somebody over there please check?

> MICHAEL C. CORBALLIS Department of Psychology, University of Auckland, Auckland, New Zealand

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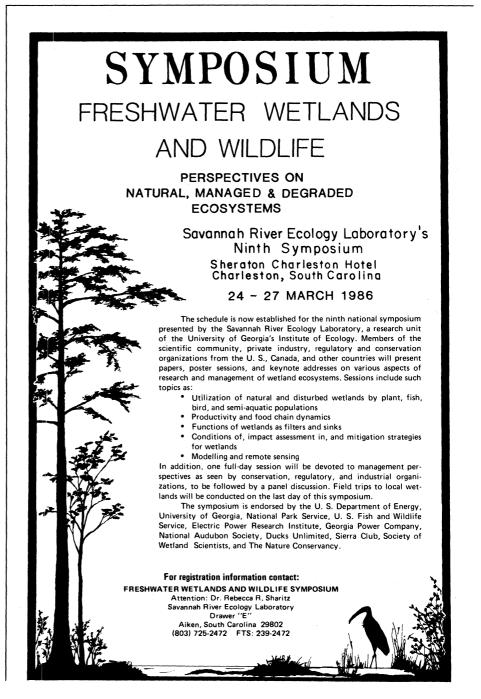
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Products & Materials

HPLC Gradient Module

The 600 gradient module is a singlepump device with a programmable controller. The Random Phase Synchronization software for valve control provides accurate $(\pm 0.5 \text{ percent})$ and precise $(\pm 0.15 \text{ percent})$ compositional proportioning and delivery of up to four solvents. This module may be programmed for automatic start and stop, column flushing, solvent degassing, and other procedures. It offers a wide range of flow rates for a variety of analytic applications. The 600 gradient module allows the user to create multisegmented gradient profiles from any of 11 programmed gradient curves and to link up to 8 stored methods for automated operation. The module occupies less than 1 foot of bench space and a drawer allows access for changing columns. Waters Chromatography. Circle 611.

Large-Scale HPLC

The ST/Process 2000 unit purifies peptides in multigram to kilogram amounts. Solvent pumps deliver 0 to 8.5 liter/min at up to 2000 psi. Columns with inside diameters from 4 to 10 inches enable one to specify isocratic and binary gradients. The unit is explosion-proof and meets all electrical codes. A fluid-control panel directs the solvent path. Columns are ASME codestamped vessels that are designed to operate at high pressures. The unit, with detectors, is packaged on a mobile frame. Automated sample injection, fraction collection, and gradient formation are available. Separations Technology. Circle 612.

Laboratory Robotics

Zymate II includes a high-speed robot to optimize sample throughput and a system controller with enhanced instrument- and computer-interfacing capability. It is designed for rapid start-up by providing applications software for common laboratory operations such as pipetting, diluting, capping, centrifugation, and so forth. The Zymate II robot's speed is double that of the original Zymate robot and the device is fully programmable. Its tactile abilities ensure reliable operation. Its controller offers interfaces with gas and liquid chromatographs and spectrophotometers. An optional barcode reader assists with sample identification. Retrofit packages permit current Zymate users to upgrade their apparatus. Zymark. Circle 613.

Characterization of Catalysts

Model TG/DSC 111 is designed to provide weight change and calorimetric data on the same sample under the same experimental conditions. The low chamber volume permits direct connection to a gas chromatograph or to a GC/MS. The device may also be used as a differential scanning calorimeter or thermogravimetric analyzer individually. The temperature range of TG/DSC 111 is from -120° to 830°C. The symmetrical balance will accommodate loads up to 3 g with sensitivity to 1 μ g. The DSC crucibles hold up to 250 µl and sensitivity of the calorimeter is 5 µW. An optional dataprocessing package is available. Astra Scientific International. Circle 614.

Multichannel Analyzer for Nuclear Spectroscopy

The Ace is a plug-in card that transforms an IBM PC XT or AT into a multichannel analyzer. The spectroscopist may view data in real time as it is being collected in 4000 channels or use the PC independently for any of its conventional purposes. After collection, data may be quickly analyzed and displayed using the software that accompanies the Ace. Hardware consists of a successive-approximation ADC (2K or 4K), Z80A microprocessor and data memory on an IBM-standard, long-slot option card. The software is a version of the ADCAM MCA emulation program. EG & G Ortec. Circle 615.

Evaporometer

The EV-1 is an evaporation-rate analyzer. It evaluates drying profiles and evaporation rates in volatiles and solvents in as little as 10 seconds. This portable, self-diagnostic instrument measures volatile loss in a variety of samples whose solids content may range from 0 to over 99 percent. It is capable of testing combined weights of sample/substrate of 0.4 to 10 g at temperatures from ambient to 200°C. The operator easily controls test parameters and switches samples. Results are accurate and repeatable. Quintel. Circle 616.

Microwave Digestion System

Model MDS-81D is designed to prepare materials for atomic absorption or ion-coupled plasma spectroscopy. Up to 12 samples may be digested simultaneously in closed vessels on the rotating turntable inside the Teflon-coated cavity. Wet ashing occurs in minutes without cross-contamination and corrosive vapors are exhausted immediately. A relief valve prevents damage to the vessel from excessive temperature or pressure. The operator controls the power setting from 0 to 100 percent in 1 percent increments. Teflon vessels and caps are available in 60and 120-ml sizes. A capping station ensures uniformity of fit and seal. CEM. Circle 617.

Computer-Simulated HPLC

DryLab 1 is a program to enhance productivity by reducing experimentation. It simulates chromatographic experiments based on published work. After an initial HPLC separation, DryLab 1 uses the data generated to determine sample conditions to optimize plate number, resolution, throughput, or other parameters. DryLab 1 may also be used for troubleshooting separation problems. It may help to determine whether a column is performing properly, whether the detector time constant is too large, and what the pressure should be. DryLab 1 will make the latter determination even if column length, particle diameter, flow rate, and composition of the mobile phase are changed simultaneously. LC Resources. Circle 618.

Infrared Spectrometer

Model FT600 is a Fourier transform infrared instrument with a spectral range from 4000 to 600 cm⁻¹. Its resolution is 4 cm⁻¹ and its wave number accuracy is to within 2 cm⁻¹, unlimited by chart paper accuracy. Scan time is 1 minute for the Michelson "cube" interferometer. The center-focus beam has less than a 10-mm diameter at focus. Resolution is constant throughout the spectral range. An optional IEEE-488 interface permits computer analysis of data and computer control of the spectrometer. Buck Scientific. Circle 619.

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.

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Personnel Placement

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Biochemist. M.S. 2 years of research and teaching experience. Several publications; worked with various aspects lipids, proteins, and DNA. Seek research position industry/academia. Box 33, SCIENCE.

Biochemist/Neurochemist, Ph.D., 7 years of research experience in receptor and tissue culture work; seeks position immediately. Box 29, SCIENCE. X

Biomedical Editor. Is research your strength, report-writing tiresome? Get help-former editor biomedical, biotechnology journals edits, rewrites, works from notes and data. Computerized. Academic discount. C. H. E. Weathersbee, 335 Ave Maria Avenue, San Antonio, Texas 78216. Telephone: 512-340-7736. 2/28; 3/7

Cytogeneticist, Ph.D. Extensive experience in meiotic and mitotic chromosome analysis, cell and embryo cul-ture, and spermatogenesis. Directed human cytogenetics laboratory. Available immediately. Box 27, SCIENCE. X

Immunologist, Ph.D. Experienced in immunoassay development, diagnostic product design, and multiple proj-ect management. Scientific background: cellular and clinical immunology, flow cytometry, and hybridoma technology. Assertive administrator, creative scientist seeks challenging managerial position. Box 26, SCI-ENCE. X

M.S., Microbiology (Environmental Toxicology Minor), with 8 years of background biochemical research; experience teaching, writing; excellent references; has allergic sensitivities to laboratory solvents. Is open to any challenging nonlaboratory position in science. P. Brake, Wing Hall, Cornell University, Ithaca, NY 14850. X

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Microsurgeon. Former director of The Johns Hopkins Microsurgery Teaching Laboratory seeks position in teaching, research, or clinical microsurgery. Box 34, SCIENCE. X

Oncopathologist. M.D. (1968). Extensive teaching and research experience in pathology. Seeks a postdoctoral position in diagnostic histopathology or oncopathology. Box 35, SCIENCE.

Physician, Scientist, Teacher. M.D., Ph.D., M.S. Extensive faculty and teaching experience: undergraduate, graduate, medical students, residents, nurses, teachers, echnicians. Research and administrative experience. Publications. Seeking suitable position. PFD, 225, Hat-len Avenue, Mt. Prospect, Illinois 60056. X

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ANATOMIST. The Department of Anatomy invites applications for a tenure-track position at the assistant or associate professor level. Qualified candidates must have Ph.D. or M.D. degree, at least 2 years of postdoctoral experience, willingness to teach medical students in at least two anatomical disciplines (with preference for gross- and neuroanatomy), and demonstrated ability to perform independent research. Special (but not excluperform independent research. Special (but not excul-sive) consideration will be given to neuroscientists and reproductive/cellular biologists. Send curriculum vitae, names of at least three references, and letter specifying teaching interests and research plans by 30 March 1986 to: Anatomy Search Committee, School of Medicine, Southern Illinois University, Carbondale, IL 62901. An Afirmative Action/Equal Opportunity Employer.

ANATOMY FACULTY

Anatomy Department needs anatomist to assume a pri-Anatomy Department needs anatomist to assume a pri-mary responsibility for teaching gross anatomy and histology or neuroanatomy. A Ph.D. or equivalent ad-vanced degree is required. Qualified applicants are en-couraged to submit their résumé and references to: Academic Dean, Cleveland Chiropractic College, 6401 Rockhill Road, Kansas City, Missouri 64131.

ASSISTANT PROFESSOR MOLECULAR BIOLOGY

The Department of Biological Sciences, University of Cincinnati, announces opening for tenure-track position at the assistant professor level in MOLECULAR BIOL-OGY. Three new positions emphasizing skills in the areas of plant, parasitic and evolutionary molecular biology are expected to be filled over the next 2 years. Preference for the first is a PLANT MOLECULAR BIOLOGIST, and is effective on or before 1 September 1986. The success-ful candidate must have completed a doctorate; postdoc-toral experience is preferred. Responsibilities will include establishing an independent research program and partic-ipating in graduate student education. Send curriculum including telephone number, a statement of re-Vitae, including telephone number, a statement of re-search interests, and have three letters of reference for-warded to: Dr. John L. Caruso, Search Committee Chairman, Department of Biological Sciences, Uni-versity of Cincinnati, Cincinnati, Ohio 45221. Dead-line for application is 15 April 1986. The University of Cincinnati is an Equal Opportunity/Affirmative Action Employee Employer.

ASSISTANT PROFESSOR. D.V.M., Ph.D. or D.V.M./Ph.D. degree in anatomy or associated field and/ or specialty Board-certification or eligibility. Candidate must have demonstrated interest, aptitude, and experi-ence in teaching undergraduate, professional, and gradu-ate levels in areas of anatomy with emphasis in surgical anatomy. Candidate must have demonstrated interest and achievement in basic or clinical research. Position available 1 July 1986. Salary dependent upon qualifications/experience. Send curriculum vitae, bibliography, and names of three references to: Dr. C. G. Plopper, Chair, Department of Anatomy, School of Veterinary Medicine, University of California, Davis, Davis, California 95616.

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TENURE-TRACK POSITION IN EXERCISE SCIENCE. Applicants are sought for the position of ASSISTANT PROFESSOR to begin fall 1986. Candidates should have a Ph.D. and research experience in motor learning or related field. The successful applicant will teach courses in motor learning and develop a research program. Send résumé and three letters of recommendation to: I. Bruce, Department of Exercise Science and Physical Education, University of Iowa, Iowa City, IA 55242. Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR MOLECULAR BIOL-OGY OF PARASITES. The Department of Biology is seeking applicants for a tenure-track position effective 1 June 1986. Candidates must have a Ph.D. in a biological science, at least 1 year of postdoctoral experience (2 years preferred) in the molecular biology of parasites and be able to teach in the introductory biology program. Duties include developing a vigorous research program to include M.S. and Ph.D. students and seeking external sources of funding.

Candidates must submit a recent curriculum vitae, reprints, and arrange to have three letters of recommenda-tion sent by 1 April 1986 to: E. L. Jarroll, Chair of the Search Committee, Department of Biology, CLEVE-LAND STATE UNIVERSITY, 1983 East 24 Street, Cleveland, Ohio 44115. Equal Opportunity Employer, M/F/H

ASSISTANT/ASSOCIATE PROFESSOR, tenure-Hasti Sciences seeks additional faculty with clinical/ research interests for expanding undergraduate/graduate curriculum in clinical laboratory sciences. Preference to Curriculum in clinical laboratory sciences. Freterence to applicants with clinical laboratory experience. Letter of application/curriculum vitae must be received by 31 March. Submit to: C. W. Patrick, Ph.D., Department of Health Sciences, University of Wisconsin–Milwau-kee, P.O. 413, Milwaukee, WI 53201; telephone: 414-963-5324. UWM is an Equal Opportunity/Affirma-ting Action Employer tive Action Employer.

HIRAM COLLEGE

Applications are invited for a full-time, tenure-track position at the **ASSISTANT PROFESSOR** level. The successful candidate will have a Ph.D. degree in botany/ successful candidate will have a Ph.D. degree in botany plant sciences and will be expected to teach courses in beginning biology, non-vascular and vascular plants (morphology and taxonomy), plant physiology, plant anatomy, and economic botany. Significant experience in transmission and scanning electron microscopy would be an asset. Leadership in developing and conducting un-deterroduct asseed project of the science. an asser. Leadership in developing and conducting un-dergraduate research projects is expected. The salary is commensurate with experience. Send curriculum vitae, undergraduate and graduate transcripts, and three letters of reference by 31 March 1986, to: Dr. William Laughner, Biology Department, Hiram College, Hi-ram, Ohio 44234. Hiram College is an Equal Opportuni-in/A firmative A string Employer tv/Affirmative Action Employer

ASSISTANT OR ASSOCIATE PROFESSOR IN BIOCHEMISTRY. Medical school, full-time, tenure-track position available to teach freshman medical stu-dents starting 1 July 1986. Postdoctoral experience required; preferred expertise in molecular biology and/or membrane biochemistry. Send curriculum vitae and ar-range for three letters of reference to be sent to: Dr. P. G. Iatridis, Northwest Center for Medical Education, 3400 Broadway, Gary, IN 46408. Indiana University is an Equal Opportunity/Affirmative Action Employer.

PROFESSOR OF ANATOMY WEST VIRGINIA UNIVERSITY

Applications are invited from persons experienced in the combined use of histochemical and microchemical analyses to study hepatic metabolism. Preference will be given to individuals qualified to hold the rank of profesgiven to individuals qualified to hold the rank of profes-sor of anatomy, have a demonstrated record of relevant publications and extramural funding, and are qualified to teach medical gross anatomy and microscopic anatomy. Closing date for applications is 1 April 1986. Submit curriculum vitae with complete bibliography, record of extramural funding, and three letters of reference to Dr. Robert S. McCurley, Professor and Chairmen, Do Robert S. McCuskey, Professor and Chairman, De-partment of Anatomy, West Virginia University Medical Center, Morgantown, WV 26506. West Virginia University is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

ASSISTANT PROFESSOR OF ANATOMY WEST VIRGINIA UNIVERSITY

Applications are invited for a tenure-track position as assistant professor of anatomy. Applicants should have a relevant doctoral degree, at least 2 years of postdoctoral experience, significant published research, and a strong commitment to excellence in teaching and research. Applicants should be prepared to teach functional human neuroanatomy in a medical neuroscience course, to con-tribute to graduate education in the department, and to develop an active, funded program of research. Closing date for receipt of applications and all supporting materi-al is 1 April 1986. Send curriculum vitae, letter outlining future plans, and three letters of reference to: **Dr. J. L.** Culberson, Search Committee, Department of Anat-omy, West Virginia University Medical Center, Mor-gantown, WV 26506. West Virginia University is an Equal Opportunity/Affirmating Action Evaluation Equal Opportunity/Affirmative Action Employer.

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Applications are invited for a non-tenure track posiwill be given to individuals having an active, productive, and funded program in cancer-related research which will augment activities in the Mary Babb Randolph Cancer Center, as well as the Department of Anatomy. A person having expertise in electron microscopic and biochemical analysis of hemopoietic organs and their microenviron-ments is particularly desired. A relevant doctoral degree and at least 2 years of postdoctoral experience is required, anu at reast 2 years of postdoctoral experience is required, as is experience in teaching medical microscopic anato-my. Closing date for application is 1 April 1986. Submit curriculum vitae with complete bibliography and three letters of reference to: Dr. Robert S. McCuskey, Pro-fessor and Chairman of Anatomy, Department of Anatomy, West Virginia University Medical Center, Morgantown, WV 26506. West Virginia University is an Equal Opportunity/Affirmative Action Employer.

Position-ASSISTANT PROFESSOR OF BIO-CHEMISTRY

Research interests and competence—This position will be filled by an individual with training and research skill in the following area: protein-nucleic acid interactions involved in the regulation of gene expression.

Qualifications-Candidates must have a Ph.D. or M.D. degree and at least 2 years of postdoctral experience in this area of research. There must be strong recommendations relative to research ability and teaching compe-tence. In addition, there must be demonstrated productivity and evaluations of the candidate which give clear indications of an ability to initiate and develop an effective, independent research program. The candidate should also be articulate and able to perform effectively as a lecturer and in more informal teaching situations at the medical and graduate student, as well as postdoctoral, level

Applications-Interested individuals should send the Following information to: Philipp Strittmatter, De-partment of Biochemistry, University of Connecticut Health Center, Farmington, CT 06032.

- A complete curriculum vitae and bibliography. Three or more letters of recommendation bearing
- upon the points above.
- 3) A brief description of future research interests, objectives, and experimental plan.f available, reprints of most significant work

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ASSISTANT/ASSOCIATE PROFESSOR MICRO-BIOLOGIST. Tenure-track position to teach and con-duct research available fall 1986. Ph.D. with documented capability in microbiology, with strong molecular back-ground and expertise in industrial and/or food microbiology required. Commitment to teaching excellence and supervision of undergraduate and graduate (M.S.) research expected. Teaching experience in microbiology desirable. Send letter of interest, curriculum vitae, and have three letters of reference forwarded to: Dr. Herbert H. Caswell, Jr., Head, Department of Biology-SCI, Eastern Michigan University, Ypsilanti, MI 48197. Deadline for applications is 2 April 1986, or until a suitable candidate is found. *Eastern Michigan University is* an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

ASSISTANT OR ASSOCIATE PROFESSOR IN NEUROPHARMACOLOGY. Medical school, fulltime, tenure-track position to teach sophomore medical students and advanced courses for graduate students. An active research program, in his/her area of expertise is highly desired. Rank and salary negotiable, depending on qualifications and experience. Starting date: 1 July 1986. Send curriculum vitae and three letters of recommenda-tion to: Dr. P. G. Iatridis, Northwest Center for Medical Education, 3400 Broadway, Gary, IN 46408. Indiana University is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT OR ASSOCIATE PROFESSOR IN PHYSIOLOGY. Medical school, full-time faculty to participate in the human physiology course for freshman participate in the numan physiology course for incannal medical students and advanced courses for graduate students. An active research program, preferably in respi-ratory, neuro, or membrane physiology is highly desired. Rank and salary negotiable, depending on qualifications and experience. Starting date: 1 July 1986. Send curricu-lum vitae and three letters of reference to be sent to: **Dr**. P. G. Iatridis, Northwest Center for Medical Educa-tion, 3400 Broadway, Gary, IN 46408. Indiana Uni-versity is an Equal Opportunity/Affirmative Action Employ-

ASSISTANT PROFESSOR IN MICROBIOLOGY. Tenure-track position in a department in which teaching and research are emphasized. Ph.D. in microbiology, plus postdoctoral experience are necessary. Strength is required in fermentation microbiology, growth of vari-ous microorganisms, and biochemical pathways and their control, especially as these areas relate to biotechnology. The successful applicant will participate in teaching introductory and general microbiology, and be responsi-ble for a course in a specialty subject (for example, microbial biochemistry, industrial microbiology). This person must also develop an independent research pro-gram in one of the specialties listed above or in a related field. Salary negotiable. Send curriculum vitae and names and addresses of four references to: David M. Ward, Department of Microbiology, Montana State Univer-sity, Bozeman, MT 59717. Deadline for applications is 11 April 1986. Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR

IN MOLECULAR/CELLULAR NEUROBIOLO-**GY**. Applications are invited for a tenure-track position available 1 September 1986. Candidates should have Ph.D. and demonstrated ability to conduct independent research and attract extramural funding. Interest in manipulating gene expression in mammalian cells, in particular, developing an adult mural tissue pertaining to neuropeptides and/or cytoskeletal elements is desirable. Teaching experience in anatomical science courses also desirable. Salary will be commensurate with qualifications. For fullest consideration, applicants should submit curriculum vitae, a brief statement of research interests, curriculum vitae, a brief statement of research interests, representative reprints, and names and addresses of three references by 15 May 1986 to: Dr. G. D. Pappas, Department of Anatomy, University of Illinois Col-lege of Medicine, P.O. Box 6998, Chicago, IL 60680. The University of Illinois is an Equal Opportunity/Affirma-tive Action Employer and encourages applications from women and minorities

ASSISTANT PROFESSOR NUTRIENT PARTITIONING AND GROWTH

The Department of Animal and Dairy Science, University of Georgia, invites applications for a full-time, tenuretrack position at the assistant professor level. The success-ful candidate must have a Ph.D. in biochemistry and/or physiology or equivalent. Experience in a successful molecular biology and/or experimental nutrition program is required. The appointment will be 75 percent research and 25 percent teaching with a 25 percent joint appointment in the College of Arts and Sciences. The successful candidate will be responsible for developing an independent and innovative research thrust in metabolic regulatory mechanisms of farm animals. Applications must be received by 1 May 1986. Send completed curriculum vitae and have four letters of reference sent directly to:

Dr. David G. Spruill, Head Animal and Dairy Science Department Livestock-Poultry Building University of Georgia Athens, GA 30602

Biochemist

Research & Development

The 3M biotechnology program has an opening for an experienced manager in the research and development of new detection systems for medical diagnostic devices.

We are interested in an individual with an advanced research degree in biochemistry or immunochemistry and a strong record of accomplishment in industrial management of both research and development programs including supervision of PhD-level scientific staff.

3M offers an innovative environment in its multidisciplinary health care research facility in St. Paul with competitive salary and benefits as well as opportunities for professional advancement. Please send your resume in confidence to P.C. Capiz.

Staffing & Employee Resources/3M 224 1W 3M Center St. Paul, MN 55144

We Are An Equal Opportunity Employer M/F/H/V



Manager, Computing Services

Argonne National Laboratory is a leading R&D organization with significant research programs requiring large-scale and distributed computing.

The Central Computing Facility...serving over 2000 users on-site and nationwide...is poised to implement several major upgrades in equipment and capabilities. This is an opportunity to exert leadership in anticipating and meeting the Laboratory's multi-faceted scientific and administrative computing and communication needs. This includes managing a staff of over 100 predominantly professional-employees, and an annual budget of approximately nine million.

Candidate should offer a strong background in engineering or scientific computing, and significant applicable experience managing a full service computer facility. Familiarity with state-of-the-art and trends for large-scale scientific computing and computer networking is required; ideally you will also be familiar with telephone communications systems and MIS.

Qualified candidates are invited to send resume and salary requirements in confidence to:

> Mr. Ronald A. Johns, Manager Employment and Placement Box D-SSD-23734-55 Argonne National Laboratory 9700 South Cass Avenue Argonne, IL 60439

An Equal Opportunity/ Affirmative Action Employer

PATHOLOGY AND TOXICOLOGY RESEARCH – BS/MS

The Upjohn Company, a leader in world-wide research, marketing and production of pharmaceuticals, chemicals and agricultural products, has several openings in Pathology and Toxicology Research. Qualified candidates will have a BS and/or MS degree in one of the biological or biomedical sciences and experiences such as below.

Biology Associate - Assist a veterinary pathologist with drug safety and toxicity studies in laboratory animals and with basic and applied toxicological research. Desirable qualifications include experience with drug safety studies, GLP compliance, personal computers, and knowledge and research experience in anatomy, histology, histochemistry, physiology, and/or microbiology.

Biology Associate - Participate in drug safety studies, record/organize/summarize data and prepare technical reports. Seeking person with demonstrated research experience in either teratology, reproductive physiology, **in vitro** testing and/or tissue culture. Experience with GLP compliance and personal computer is desirable.

Industrial Toxicology Associate - Participate in animal experiments to evaluate cardiopulmonary toxicity of pharmaceutical chemicals and airborne toxicants. A strong background in measuring cardiopulmonary functions and for the analysis of gas vapor and particulate matter is required. Animal surgery, electrophysiology and technical report writing skills are highly desirable.

Kalamazoo is a medium-sized Southwestern Michigan community with immediate access to a mix of excellent cultural, educational and recreational pursuits including numerous lakes and a four-season climate. Upjohn offers a competitive salary, commensurate with experience and a comprehensive benefits program.

For confidential consideration, please call from outside of Michigan toll free 1-800-253-8600, ext. 3-6767, (inside Michigan call collect 616-323-6767), to request an employment application be sent to you immediately. Plan to submit a copy of your curriculum vitae and college transcript with your application. Please refer to ad number 1843-A when calling.



A century of caring

An Equal Employment Opportunity Employer M/F

ASSISTANT PROFESSOR—MICROBIOLOGY-BIOCHEMISTRY

The Department of Animal and Dairy Science, University of Georgia, invites applications for a full-time, tenure-track position at the assistant professor level. The success-ful candidate must have a Ph.D. in microbiology with training and/or experience in biochemistry. Experience or training in recombinant DNA methodologies is reor training in recombinant DAA methodologies is re-quired. The appointment will be 75 percent research and 25 percent teaching with a 25 percent joint appointment in the College of Arts and Sciences. The successful candidate will be responsible for developing an indepen-dent research thrust in cellular and molecular biology in studying microbiological functions impacting nutrient digestibility and metabolism of farm animals. Applica-tions must be received by 1 May 1986. Send completed curriculum vitae and have four letters of reference sent directly to:

Dr. David G. Spruill, Head Animal and Dairy Science Department Livestock-Poultry Building University of Georgia Athens, GA 30602

ASSISTANT OR ASSOCIATE PROFESSOR OF OCCUPATIONAL MEDICINE in the Department of Environmental Science and Physiology, Harvard School of Public Health. Must hold the M.D. degree and be Board-certified in occupational medicine. Administra-tive responsibilities include directing the residency in occupational medicine. Other duties include teaching and research in occupational health. Salary commensu-rate with education and experience. Send curriculum rate with education and experience. Send curricultum vitae, including a list of publications, reprints of such publications if available, and the names of three individ-uals who would be willing to respond to request for evaluation to: Dr. John B. Little, Chairman, ad hoc Search Committee, Department of Cancer Biology, Harvard School of Public Health, 665 Huntington Avenue, Boston, MA 02115.

Expression of interest is particularly invited from women and minority candidates.

ASSISTANT AND/OR ASSOCIATE PROFESSOR OF PHARMACOLOGY tenure-track positions (two) OF PHARMACOLOGY tenure-track positions (two) available immediately for expanding department. Appli-cants must have a Ph.D. in pharmacology and an active research program in psychopharmacology and an active research program in psychopharmacology to comple-ment current research strengths of department. Specific areas of interest are: behavioral pharmacology, neuro-chemical analysis (HPLC), and/or receptor binding. As-sistant professor candidates should have two or more years of postdoctoral experience; associate candidates should have four or more years at assistant level. Successshould have four or more years at assistant level. Success-ful candidates will be expected to teach medical and graduate students and to establish research program that merits extramural funding. Ample laboratory space and start-up funds available. Send letters of application, curriculum vitae, brief description of research goals, teaching experience, and names of three references by 15 April 1986 to: Office of Human Resources, Northeastern Ohio Universities College of Medicine, P.O. Box 95, Rootstown, Ohio 44272. An Affirmative Action/Equal Opportunity Employer.

BIOCHEMIST. Tenure-track assistant professor posi-tion effective 1 September 1986 or 1 January 1987 Appointee expected to contribute to a newly organized and expanding cell and microbial biology program via vigorous independent research, supervision of master's and doctoral students, and instruction at undergraduate and graduate levels. Send curriculum vitae and descrip-tion of research goals by 1 April to: Dr. Ernest Cutchins, Department of Biology, Catholic University of America, Washington, D.C. 20064. An Affirmative Action/Equal Opportunity Employer.

BIOLOGICAL OCEANOGRAPHER-2 year post-doctoral position in zooplankton ecology. University of Miami's Rosenstiel School of Marine and Atmospheric Science. Demonstrated expertise in field research and sampling. Familiarity with bioacoustics would be an asset, but not essential. Send résumé, relevant publications, and at least three letters of reference to:

Dr. Peter B. Ortner RSMAS/BLR 4600 Rickenbacker Cswy. Miami, FL 33149

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POSITIONS OPEN

ASSISTANT PROFESSOR—PHARMACOLOGY CASE WESTERN RESERVE UNIVERSITY

The Department of Pharmacology of Case Western Reserve University invites applications for a tenure-track position as an assistant professor. Research interests of applicants may be in any area of modern cellular and molecular pharmacology, but those complementing the interests of current faculty in molecular endocrinology, cellular neurobiology, ion transport, or protein structure-function relationships are especially invited. Senior candidates with outstanding credentials may apply for a higher level appointment. The successful candidate will be expected to establish a strong, independent research program. Postdoctoral experience required. Please sub-mit curriculum vitae, a concise statement of research accomplishments, and future interests and names of three references to: Dr. M. E. Maguire, Department of Pharmacology, School of Medicine, Case Western Reserve University, Cleveland, Ohio 44106. An Affir-mative Action/Equal Opportunity Employer.

UNIVERSITY OF CALIFORNIA SANTA BARBARA ASSISTANT PROFESSOR OF PLANT PHYSIOLOGY

The Department of Biological Sciences, University of California, Santa Barbara, invites applications for an California, Santa Barbara, invites applications for an anticipated tenure-track position at the assistant profes-sor level in biochemical plant physiology. Applicants should be biochemically oriented plant physiologists interested in exploring cellular and/or developmental phenomena in higher plants with a strong molecular approach. The position is intended to bridge existing vigorous research groups concerned with the molecular biology of lower eukaryotes and of higher plants, the cell biology of lower plants, and the established areas of physiological plant ecology and plant-environmental in-teractions. Applicants interested in light and hormona control of plain development, membrane transport and physiology, secondary metabolism and interactions are of particular interest to the department, however, other areas of molecular and/or biochemical plant physiology will be considered. Applicants should have had at least 1 year of postdoctoral experience in molecular or biochemical areas. In addition to establishing a strong research program in plant physiology, the successful applicant will be expected to teach a core course in plant physiology, contribute to the physiology section of the introductory biology course, and offer an advanced course in his or her specialty. Interested individuals should send a copy of specialty. Interested individuals should send a copy of their curriculum vitae, a brief summary of their research and academic goals, and arrange to have at least three letters of reference sent to: The Chairman, Department of Biological Sciences, University of California, Santa Barbara, California 93106, by 31 August 1986. The University of California is an Equal Opportunity/Affirmative Action Employer Action Employer.

ASSOCIATE DIRECTOR DIVISION OF CANCER TREATMENT

The Howard University Cancer Center invites applica tions for an associate director to head the division of cancer treatment with major responsibility to develop a clinical research program. Candidates should be Boardcertified with experience in clinical research. Send curric-ulum vitae and three references to: Dr. Suresh Mohla, Howard University Cancer Center, 2041 Georgia Avenue, NW, Washington, DC, 20060. Affirmative Action/Equal Opportunity Employer.

BIOCHEMIST

The Division of Cardiovascular Disease at the University of Alabama at Birmingham invites applications for a faculty member to work with hypertension research group. Must be expert in cell biology and culture of endothelial cells. Apply to: Hypertension Research Program, University of Alabama at Birmingham, University Station, Birmingham, AL 35294, Atten-tion: Charlene Walker. An Equal Opportunity/Affirmative Action Employer

BIOCHEMIST/MOLECULAR BIOLOGIST. To assist in research on neuropeptides, including purification, RIA, receptors, mechanisms of action, and gene structure. Qualifications: Ph.D., preferably with post-doctoral experience. Salary and academic rank commensurate with training and experience. Apply with references to: Dr. S. I. Said, P.O. Box 26901, Oklahoma City, Oklahoma 73190. Equal Opportunity Employer.

POSITIONS OPEN

ASSISTANT PROFESSOR, PLANT MOLECU-LAR/CELL BIOLOGIST. Tenure-track position in botany at the assistant professor level, beginning September 1986, to teach undergraduate and graduate courses in molecular and cell biology, to develop a graduate program, and to establish a strong research program with external funding in the candidate's area of specialization. Ph.D. and postdoctoral experience required. Submit vitae, reprints, and three letters of recommendation by 15 March 1986 to: R. D. Goos, Assistant Professor, Plant Molecular/Cell Biologist (020194) Position, THE UNIVERSITY OF RHODE ISLAND, P.O. Box 357, Kingston, RI 02881–0357. An Affirmative Action/Equal Opportunity Employer, M/F.

BIOLOGIST

Temporary position for 1986 to 1987 academic year. Master's degree minimum. Teaching responsibilities: limnology, ecology, botany, and general biology. Rank and salary negotiable. Send résumé, transcripts, and three current letters of reference by 15 April 1986 to: Dr. K. A. Meyer, Biology Department, Mansfield University (MU), Mansfield, PA 16933. Affirmative Action/Equal Opportunity Employer. MU actively solicits the applications of blacks and other minorities. blacks and other minorities.

BIOLOGIST-The Biology Department has open a tenure-track position at the assistant professor level to coordinate the freshman level laboratory program in biology. The successful applicant will also be expected to biology. The successful applicant will also be expected to teach in the general biology program and to develop an active research program in the area of his/her specialty. Preference will be given to applicants with prior teaching experience. Exceptional candidates holding the M.S. in biology may be considered at the rank of instructor for a non-tenure track appointment. To be considered, candi-dates should submit no later than 1 April 1986, curriculum vitae, transcripts of all graduate work, and three letters of recommendation to:

Dr. James W. Smiley, Chairman Department of Biology College of Charleston Charleston, SC 29424 Affirmative Action/Equal Opportunity Employer

BIOLOGY AQUATIC TOXICOLOGIST/ FISHERIES BIOLOGIST

Lawler, Mutusky and Skelly Engineers, environmental science and engineering consulting firm, is seeking an individual with a M.S. degree. This is an entry level position which requires knowledge of fate of toxic substances in the aquatic environment, fisheries, in impact assessment, and biometrics. Good oral and written communication skills mandatory, computer skills desirable. Send résumé with salary history and requirement to:

Director of Personnel LAWLER, MATUSKY AND SKELLY ENGINEERS One Blue Hill Plaza Pearl River, New York 10965 Equal Opportunity Employer, M/F

BIOLOGY—TENURE-TRACK POSITION

To teach a wide variety of undergraduate courses for To teach a wide variety of undergraduate courses for both majors and non-majors in a small, liberal arts college; rank/salary according to experience. Ph.D. and college-teaching experience preferred. Application dead-line 21 March 1986. Send résumé with reference letters to: Academic Dean, Rocky Mountain College, 1511 Poly Drive, Billings, MT 59102. Telephone: 406-657-1020.

BIOLOGY. Tenure-track faculty position, rank and salary negotiable. Applicant must have a Ph.D. in biology and teaching ability in cell biology, histology, or embryology. Experience in general biology or anatomy and physiology helpful. Successful candidate will be expected to establish a strong undergraduate research expected to establish a strong undergraduate research program. Send application letter, résumé, and statement of research goals, prior to 15 March 1986, to: Professor Bert E. Holmes, Director of the Science Program, Arkansas College, Batesville, Arkansas 72501. Tele-phone: 501-793-9813. Arkansas College is an indepen-dent liberal arts college with an endowment in excess of 622 million. A function Earth Concentruity Em \$33 million. Affirmative Action/Equal Opportunity Emplover.

Scientific Computing And Information Processing Pharmaceutical R&D

Smith Kline and French Laboratories, an international leader in the health care industry, has several senior level management and professional computing openings in their Pharmaceutical R&D division,

MANAGEMENT

Strategic alignment of the division's computing into Facilities, has resulted in the creation of three new senior level management positions.

located on a new campus just outside of Philadelphia.

- Head of the Personal Productivity Facility. This is a leadership position incharge of our information center staff and function, which will establish and execute strategies encompassing end-user computing, support, EDP training, and personal and workstation computing. At present this function supports nearly 1500 scientists and associated staff, through HELP desk, microcenter, EDP training, and walk-in support services. Candidates should have considerable management, information center, end-user computing, and senior level consulting experience.
- Head of the Application Development Facility. This leadership position has responsibility for all aspects of our application development effort, including Scientific Computing, Laboratory Automation, Data Base Management, Office Automation, and Business Systems. Substantial management, project direction, product evaluation and acquisition, and senior level consulting experience, and a software development background, are required.
- Scientific EDP Manager for Biological Sciences. Responsible for interfacing with senior managers in Biological Sciences and Biopharmaceutical R&D to develop a broadbased computer strategy for the area, and to

propose and coordinate the implementation of associated projects in the Information Sciences (EDP) department. Strong experience in scientific computing is mandatory, and an advanced degree (Ph.D.) in a relevant scientific discipline is highly desirable.

COMPUTER PROFESSIONALS

We are expanding all aspects of computing function including Application Development, Laboratory Automation, Communications, System Programming, micro-computing, and end-user Support. We are looking for candidates who can apply leading edge computer technology to the areas of life sciences, chemistry, pathology/toxicology, molecular biology, biopharmaceuticals, and clinical research. You will have the latest technology at your disposal, including one of the largest Philadelphia-area VAX Clusters, a wide range of workstations from IBM PC to MicroVAX, a facility-wide local area network, and a diverse set of application tools encompassing 4th generation DBMS, robotics, expert systems, laboratory information management systems (LIMS), real-time data collection/analysis, and personal productivity tools at the PC level — an IBM mainframe has also been proposed. By joining our group of dedicated, team and results oriented professionals, you will participate on, or lead project teams comprised of scientists and computer specialists working together to solve R&D automation goals.

Qualified and interested candidates should send C.V. with salary requirements to: T. Daniels, Manager Personnel Relations, Smith Kline & French Laboratories, 1558 Spring Garden Street, Philadelphia, PA 19101. We are an Equal Opportunity Employer, M/F/H/V.



BIOTECHNOLOGY—AGRICULTURE

Bio Technica International of Canada (BTC) is developing a research program for the genetic improvement of major Canadian crops. Expressions of interest are invited from scientists to provide leadership and research expertise in the following:

PLANT BREEDING-to implement a program for the genetic improvement of oilseed crops

TISSUE CULTURE/MOLECULAR BIOLOGYto devise and implement biotechnology research specifically for oilseed crop improvement.

The BTC research facility is located in Calgary, Alberta. BTC has affiliated companies in the United States and United Kingdom.

Applicants should have a Ph.D., relevant research experi-ence, and a commitment to commercial research.

A résumé with names of three referees should be sent to: Dr. W. R. Scowcroft, V-P Research, Bio Technica Canada, 170, 6815—8th Street N.E., Calgary, Alber-ta, Canada T2E 7H7.

Bio Technica International of Canada Inc.

CELL BIOLOGIST

The Department of Biology at the University of Utah seeks candidates for a tenure-track faculty appointment in plant or animal cell biology. The position is available for July 1986, but candidates interested in later starting dates are welcome to apply. The successful candidate will be expected to establish a vigorous research program and to contribute to undergraduate and graduate teaching pro-grams. We particularly desire a colleague who can estab-lish mutually beneficial interactions with existing re-search groups. Several recent appointments and increas-ing cooperation with departments in the adjacent medical school offer the opportunity to participate in the continued development of an already strong program. Interested persons should send a letter of application,

curriculum vitae, and three letters of recommendation or the names of three individuals willing to serve as refer-ences. The closing date for receipt of applications is 1 May 1986. Address all materials to:

Dr. Mario R. Capecchi Department of Biology University of Utah Salt Lake City, UT 84112

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

UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO, CHAIR OF DEPARTMENT OF BIOCHEMISTRY

Nominations and applications are invited for the posi-tion of CHAIR AND PROFESSOR with tenure. A starting date of September 1986 is preferred. Candidates should have a distinguished research record, experience in teaching students of medicine and/or other health science professions, and demonstrated leadership in administrative abilities. Applications with curriculum vitae or nominations should be sent by 15 March 1986 to: Dr. Edward J. Masoro, Search Committee for Biochemistry Chair, Department of Physiology, University of Texas Health Science Center, San Antonio, Texas 78284-7756.

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

DEPARTMENT OF HUMAN GENETICS-The Department of Human Genetics is a basic science department at the University of Michigan School of Medicine. The department is research-oriented with strong gradu-The department is research-oriented with strong gradu-ate and postdoctoral training programs in genetics and molecular biology. We are seeking applicants for a number of faculty positions. Candidates at all ranks will be considered. Research interest in molecular genetics, broadly interpreted, is preferred. Applications including curriculum vitae, a brief statement of research plans, and the pomer and addresses of these references chevild he Curriculum vitae, a order statement or research plans, and the names and addresses of three references should be sent to: Dr. Myron Levine, Department of Human Genetics—Box 0618, The University of Michigan Medical School, Ann Arbor, MI 48109–0618. The University of Michigan is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

CHAIR

DEPARTMENT OF BIOLOGICAL SCIENCES UNIVERSITY OF MARYLAND BALTIMORE COUNTY (UMBC)

The UMBC Department of Biological Sciences is seeking a distinguished biologist to succeed **Dr. Keith R. Porter**, as professor and chair, effective 1 July 1987. The department includes 25 faculty members with 400 The department includes 25 faculty members with 400 undergraduate majors and 75 graduate students. The research interests of the faculty range from molecular and cellular biology to organismic and population biology. The department offers the B.A., M.S., and Ph.D. degrees in biological sciences and the M.S. degree in applied molecular biology. The University of Maryland Balti-more County Compute in knowing in the Religions when the more County Campus is located in the Baltimore suburb of Catonsville, with a current undergraduate enrollment of 8500.

Send curriculum vitae and names and addresses of at least three references by 15 April 1986, to:

Dr. Brian P. Bradley Chairman of Search Committee Department of Biological Sciences University of Maryland Baltimore County

Catonsville, Maryland 21228 UMBC is an Affirmative Action/Equal Opportunity Employer.

Women and minorities are encouraged to apply.

UNIVERSITY OF ABERDEEN CHAIR OF GENETICS

Applications are invited for the chair of genetics from candidates with a distinguished record in research and scholarship, particularly in the area of molecular genetics in science and medicine.

Further particulars and application forms from: The Secretary, The University, Aberdeen, Scotland AB9 1FX, with whom applications (two copies) should be lodged by 14 March 1986.

COGNITIVE SCIENCE-UNIVERSITY OF CALI-FORNIA, SANTA BARBARA: Anticipated tenure track position in cognitive science, effective fall 1986. Candidate's research should focus on computational modeling of aspects of cognition, perception, or motor control. Expertise in the area of neural net modeling and parallel processes is of special interest. This is an interdisciplinary appointment involving affiliation with the cog-nitive science program and relevant academic depart-ments. Ph.D. and evidence of excellence in research and teaching are required. Salary and level will depend on the candidate's qualifications. Exceptionally well-qualified persons whose background and experience warrant a persons whose background and experience warrant a senior-level appointment are encouraged to apply. Sub-mit curriculum vitae and reprints and arrange for three letters of recommendation to be sent to: Cognitive Science Search Committee, CORI, 2204 North Hall, University of California, Santa Barbara, CA 93106. Applications must be received by 30 March, 1986. Equal Opportunit/A formative Action Employee Opportunity/Affirmative Action Employer

DIRECTOR, WYOMING WATER RESEARCH CENTER

The Wyoming Water Research Center, a state- and federally funded division of the University of Wyoming with responsibilities for research, service, teaching, and extension in water resources, is seeking a director who will be responsible for planning, implementing, and coordinating the university's water research programs. The position offers an excellent opportunity for an individual who can add a national and international perspective to an established and successful state-regional water research program, while living in a region with outstanding quality-of-life benefits. Qualifications in-clude Ph.D. or equivalent combination of degree and experience, several years of experience in water resources research and research administration, a record of effective interaction with government agencies, an outstanding publication record, and excellent communication skills. The position is tenurable with joint faculty appointment in an appropriate academic department. Faculty rank and salary commensurate with experience. Send letter of application, résumé, and three letters of recommendation by 14 March 1986 to: Dr. Harold Bergman, Search Chairman, Wyoming Water Research Center, P.O. Box 3067 University Station, Laramie, Wyoming 82071

The University of Wyoming is an Equal Opportunity/ Affirmative Action Institution.

POSITIONS OPEN

THE UNIVERSITY OF MICHIGAN CHAIR-MANSHIP OF PHYSIOLOGY-The University of Michigan is seeking an academic leader to direct the research, teaching, and service programs of its Depart-ment of Physiology. Qualifications include an M.D. degree or a Ph.D. degree in physiology or a related field, national stature as a researcher in an area of physiology, demonstrated commitment to teaching, and administra-tive ability. An instructional track-faculty position would accompany the chairmanship appointment.

Please respond to: Edward J. McGuire, M.D.

Edward J. McGurre, M.D. Chairman, Physiology Review and Search Committee c/o Jeanne M. Kin Medical Administration Staff Assistant University of Michigan Medical School M7330 Medical Sciences I Building Ann Arbor, Michigan 48109–0010

The University of Michigan is a nondiscriminatory Affir-mative Action Employer.

DEPARTMENT CHAIRMANSHIP: College of St. DEPARTMENT CHAIRMANSHIP: College of St. Thomas, a Catholic coeducational liberal arts institution of some 7000 students, seeks a chairperson for the Department of Psychology. Qualified candidates will possess a Ph.D. and credentials as an accomplished teacher, practicing scholar, and efficient, accomplished administrator. The department will give preference to individuals in the following areas: (i) pureference to individuals in the following areas: (i) physiological psy-chology, (ii) industrial and/or organization psychology, and (iii) personality studies. Nominations and/or applications should be sent to: Dr. John Nemo, Dean of the College, P.O. Box 5051, 2115 Summit Avenue, St. Paul, Minnesota 55105. In addition to a letter of application, interested individuals should send a current résumé (including names, addresses, and telephone numbers of at least three references). Applications and nomi-nations are due by 15 March 1986. However, the search will remain open until the position is filled. *The College of St. Thomas is an Affirmative Action/Equal Opportunity* Employer.

DIRECTOR CENTER FOR SOUTHWEST STUDIES

Fort Lewis College invites nominations and applications for appointment as director of its Center of Southwest Studies

This 12-month appointment involves approximately half-time teaching and half-time administration of the center's research and archival functions. The faculty appointment carries responsibility for development and coordination of the undergraduate major in Southwest studies.

The appointment requires an earned doctorate and substantial experience in interdisciplinary undergraduate education, in working with Native American and Hispanic peoples and in external resource development. Salary is competitive, based upon qualifications and experience. Closing date for application is 1 April with appointment effective 1 July.

Located in Durango, Colorado, Fort Lewis is a 4 year liberal arts college with 3700 students and 170 faculty. To apply, address:

Dean Edward Angus School of Arts and Sciences Fort Lewis College Durango, Colorado 81301 Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION

The Department of Biology, Georgia Southwestern College, invites applications for a tenure-track position to begin September 1986. A Ph.D. is preferred. Teachto begin September 1986. A Ph.D. is preferred. Teach-ing duties will include entry-level biology, human anato-my and physiology, and some upper-level biology courses. Expertise in vertebrate biology is desirable. Although this is primarily a teaching position, research interest is encouraged. Salary and rank are commensurate with education and experience. Applicants should submit entricibility without a transmitter of preference and entriched and the same set of the same curriculum vitae; a statement of professional goals; and names, addresses, and telephone numbers of at least three references by 28 March 1986 to: **Dr. Elisabeth D.** Elder, Chairman, Biology Search Committee, Department of Biology, Georgia Southwestern College, Americus, Georgia, 31709. Telephone: 912-928-1250

Georgia Southwestern College is an Affirmative Action/ Equal Opportunity Employer.

RESEARCH DIRECTOR

PHARMACIA P-L BIOCHEMICALS, INC. is one of the world's foremost developers and producers of biochemical reagents for researches in molecular biology, genetic engineering and classic biochemistry. Its products are marketed world-wide by Pharmacia AB and its subsidiaries.

Continuing growth of R/D in our Milwaukee, Wisconsin facilities has created an opening for an innovative research professional with managerial abilities.

As Research Director, you will have full responsibility for setting research priorities and utilization of personnel and financial resources for new product development. You will work closely with management and marketing to set new product objectives.

Qualifications include a Ph.D. in Molecular Biology, Biochemistry, Microbiology or related science; published researches in Molecular Biology; and a successful track record in new product development, from idea to marketplace (or the equivalent in commercial consultations).

For immediate consideration, please send letter and resume to: Jack M. Siegel, Ph.D., Vice President and General Manager, Pharmacia P-L Biochemicals, Inc., 2202 No. Bartlett Avenue, Milwaukee, Wisconsin 53202. We are an equal opportunity employer M/F/H/V.

Pharmacia P-L Biochemicals

HOFFMANN-LA ROCHE

Biochemist

Join the prestigious Roche Institute of Molecular Biology and become part of a professional team of research experts working on the isolation, purification and characterization of membrane-bound proteins involved in biotransformation of drugs, steroids and other chemicals.

We're seeking a self-motivated individual with a strong background in enzymology, gel electrophoresis and column chromatography. You must be capable of working independently, be an effective communicator, and possess excellent technical writing skills. BS in Biochemistry +2 years experience required; MS in Biochemistry with an interest in the above fields will be considered.

Please send your resume or C.V. to: Fran Newman



HOFFMANN-LA ROCHE INC. Nutley, NJ 07110

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DIRECTOR

International Centre for Genetic Engineering and Biotechnology

The International Centre for Genetic Engineering and Biotechnology (ICGEB) is an intergovernmental organization being established by 36 countries as a centre of excellence devoted to the application of genetic engineering and biotechnology for development. The United Nations Industrial Development Organization (UNIDO) assists the member countries of the ICGEB in establishing the Centre.

Applications from outstanding scientists in the field of genetic engineering and biotechnology are invited for the post of Director which carries remuneration at the level of a Director of a Division in the United Nations. Appointments are expected to be made for a period of three to five years. Candidates should be persons of the highest possible international standing and respect in the scientific and technological field. Due regard shall also be given to their (i) experience in the management of a scientific centre and a multi-disciplinary team of scientists; (ii) ability to effectively interact with Member Governments, international institutions and the world scientific community; (iii) commitment to the objectives of the Centre and in particular to the strengthening of technological capabilities of developing countries; and (iv) commitment to international co-operation in the field of genetic engineering and biotechnology. The selection process involves screening by scientific experts as well as by Member Governments.

The Centre will have two components: Trieste, Italy, and New Delhi, India. It will maintain close links with a number of affiliated centres in developing countries with a staff of over 50 senior and junior scientists. Its functions will essentially be in research and training, particularly of developing country nationals. The work programme is expected to include agriculture, human and animal health and productivity, industrial microbiology and energy, and possibly protein engineering. The Director will be directly responsible to the Preparatory Committee of Member States which is the interim Board of Governors. He will be initially appointed as a project official of UNIDO. Two senior scientists will assist him as the Heads of the two components. Applications for this challenging assignment, indicating expected date of availability and curriculum vitae should reach UNIDO before **15 March 1986** by telex or express letter addressed to the **Special Technical Adviser, Technology Programme, United Nations Industrial Development Organization, P.O. Box 300, 1400 Vienna, Austria, Telex 135612.**

Postdoctoral Scientist Tumor Cell Pharmacology

Smith Kline & French Laboratories, located in suburban Upper Merion, Pennsylvania, is seeking an outstanding individual to join a multidisciplinary research effort investigating the molecular biology of human colon adenocarcinoma. The successful applicant will participate in a joint study between our Departments of Cell Biology and Molecular Pharmacology to investigate the role of locally released neurotransmitters (adrenergic, cholinergic and peptidergic) and endogenous growth antagonists in regulating the proliferative capacity and differentiation of normal and neoplastic human colon epithelial cells.

Candidates should have:

- a Ph.D. in Molecular Pharmacology.
- experience with receptor binding studies.
- 0-3 years postdoctoral experience.
- a growing publication record.
- clear and concise communication skills.

We offer excellent compensation and benefits and an attractive relocation policy. For confidential consideration, send your CV and the names of three references to: Mr. Walter B. Flagg, Senior Employment Consultant, SmithKline Beckman Corporation, 1586 Spring Garden Street, Philadelphia, PA 19101. We are an equal opportunity employer, M/F/H/V.



DIAGNOSTIC MOLECULAR GENETICS: The Department of Laboratory Medicine, Mayo Clinic, Rochester, Minnesota, is seeking an individual to develop a DNA Diagnostic Laboratory, which would use cloned probes in the diagnosis and screening of human genetic diseases and their carrier states and in extending those procedures to the study of infectious diseases and human malignancy as their clinical utility becomes established. While the primary focus of this position is on providing a clinical assay/consultation service, research efforts to about 25 percent of the time are encouraged, and an academic interest in DNA diagnosis would be expected and undoubtedly quite productive. The nature of laboratory practice at the Mayo Clinic ensures an ample and varied source of investigational opportunities. The individual chosen for this position must be able to interact productively with colleagues in the established disciplines of the Department of Laboratory Medicine, the clinicians at the Mayo Clinic, and the research staff, especially those in the Department of Biochemistry and Molecular Biology. The ideal candidate will have a doctoral degree, experience in recombinant DNA methodology, a strong background in medical genetics, and a good general knowledge of medicine. This position, which is available immediately, is an institutionally funded service position with ample opportunities for growth. Interested individuals should have curriculum vitae; a letter summarizing interest, thoughts, and plans for such a laboratory; and letters of recommendation transmitted to: Michael B. O'Sullivan, M.D., Chairman, Depart-ment of Laboratory Medicine, Mayo Clinic, Roches-ter, Minnesota 55905. Mayo Foundation is an Affirmative Action/Equal Opportunity Employer.

THREE FACULTY POSITIONS. The Department of Biological Sciences, Florida International University, Miami, Florida 33199, has tenure-earning assistant professor positions beginning August 1986 in (i) comparitive animal physiology, (ii) comparative anatomy, and (iii) geneticist-molecular biology. Teaching courses in biology (for majors and service courses) at the undergraduate and graduate level, as well as developing a vigorous, independent research program, is expected. Preference to candidates with postdoctoral experience. Interested candidates should send curriculum vitae, selected reprints, and a list of three references to: the Search Committee, before 17 March 1986.

FIU is a member of the State University System of Florida and an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION at the associate professor level is open in the Division of Neonatology/Pulmonology, Childrens Hospital of Los Angeles (University of Southern California School of Medicine). Joint appointment in basic science department exists. Candidate should have demonstrated independent basic research in an area related to phagocytes. Candidate must qualify for a tenured-faculty position. Interested candidates should send curriculum vitae to: Arnold Platzker, M.D., Head, Division of Neonatology/Pulmonology, Childrens Hospital of Los Angeles, Box 54700, Los Angeles, California 90054–0700.

Childrens Hospital of Los Angeles and the University of Southern California are Equal Opportunity/Affirmative Action Employers.

UCLA—THE DEPARTMENT OF EARTH AND SPACE SCIENCES/INSTITUTE OF GEOPHYS-ICS AND PLANETARY PHYSICS (Center for the Study of Evolution and the Origin of Life) announces a SENIOR LEVEL FACULTY APPOINTMENT effective academic year 1986 to 1987, for an individual with interests in the origin of life and/or the interrelated evolution of the earth and its biota. Candidates may be active researchers in any field of the natural sciences; individuals with interdisciplinary expertise are sought especially. Primary criteria for selection will be outstanding intellectual ability, expertise in the relevant scientific disciplines, and excellence both in research and in teaching. To apply, prior to 7 April 1986, please forward your curriculum vitae, a listing of three or more references (with telephone numbers), and a one-page description of your background and experience to: Professor J. W. Schopf, Chair, Earth and Space Sciences/Institute of Geophysics and Planetary Physics Search Committee, Department of Earth and Space Sciences, University of California, Los Angeles, Los Angeles, CA 90024. The University of California is an Equal Opportunity Employer; qualified women and/or members of minorities are especially invited to apply for this position.

POSITIONS OPEN

FACULTY POSITION AVAILABLE— TOXICOLOGY

Applications are invited from individuals with earned Ph.D. degree and expertise in the area of toxicology. Successful candidates will participate in teaching at the graduate and undergraduate levels, direct dissertations and theses of graduate students, and conduct independent and collaborative research. There is considerable latitude relative to the area of research interest, but some knowledge of industrial toxicology/industrial hygiene is desired. Salary and rank associated with this 12-month, tenure-track position will be commensurate with experience and qualifications. Interested individuals should submit a letter of application, a complete résumé, and the names of four references to:

Dr. William M. Bourn, Head Division of Pharmacology, Toxicology and Nuclear Pharmacy School of Pharmacy Northeast Louisiana University

Monroe, Louisiana 71209–0470

Northeast Louisiana University is an Equal Opportunity Employer. Applications are encouraged from women and members of minority groups.

FACULTY POSITIONS (THREE)

Biochemist, with subspeciality in inorganic and/or physical chemistry, to teach undergraduate courses in biochemistry or in the area of the specialty. Ph.D. in chemistry or biochemistry required. A tenure-track position, initial appointment for 3 years.

Organic Chemist, specializing in synthetic organic chemistry or natural products, to teach undergraduate organic chemistry or the advanced laboratory course. Ph.D. in organic chemistry required. A tenure-track position, initial appointment for 3 years.

Inorganic Chemist to teach undergraduate inorganic chemistry, with additional teaching duties in general chemistry or the advanced laboratory course. Ph.D. in inorganic chemistry required. This is a temporary replacement position for 2 years.

All three involve direction of undergraduate research in the specialty. Appointments begin September 1986. Teaching or postdoctoral research experience preferred. Send curriculum vitae, transcripts, and three recommendations to: Kenneth Hellman, Chair, Department of Chemistry, Smith College, Northampton, MA 01063. An Equal Opportunity Employer. Women and minorities encouraged to apply.

FACULTY POSITIONS IN NEUROSCIENCE

Applications are invited for five full-time positions (tenure track) with specializations in the areas of neuroendocrinology, somatosensory neurophysiology, reflex motor physiology, neuroimmunology, and molecular neurobiology to complement an existing neuroscience group. Exceptional candidates in other areas of neuroscience will also be considered. Applicants must have a relevant Ph.D. degree (or equivalent) with postdoctoral experience, the potential for developing a vigorous and productive research program in their area of interest, and the ability for obtaining extramural funding. Responsibilities will include teaching in both medical and dental curricula, participation in the department's graduate training efforts, and productive research. Generous start-up support is available and continuing research support for the second and third years can be provided. Applicants should send curriculum vitae, description of research interest, and the names and addresses of three references to: Dr. James G. Townsel, Chairman, Department of Physiology, Meharry Medical College, 1005 D. B. Todd Boulevard, Nashville, TN 37208. Three positions are available immediately and the two remaining positions will be filled by 1 October 1986. Meharry Medical College is an Equal Opportunity/Affirmative Action Employer.

The Department of Agronomy at the University of Arkansas invites applications and nominations for HEAD. Applications must include résumé transcripts, and five references. Send to: Dr. Glenn W. Hardy, Chairman Search Committee, 205 Agriculture Building, University of Arkansas, Fayetteville, AR 72701. The position will remain open until 31 March, or a satisfactory candidate is employed. The University of Arkansas is an Equal Opportunity/Affirmative Action Institution.

POSITIONS OPEN

Applications are invited for a full-time, permanent FACULTY POSITION in the Department of Physiology and Biophysics. The responsibilities of this position are the management of a large enrollment "Keller-Plan" laboratory course in human physiology for undergraduates, the preparation of instructional and test materials for the course, and the supervision of the course staff. A doctorate in a physiological science and a demonstrated interest in the advancement of undergraduate education are required.

For full consideration, letters of application should be mailed by 20 April 1986 to: Dr. Dennis E. Buetow, Head, Department of Physiology and Biophysics, 524 Burrill Hall, University of Illinois at Urbana-Champaign, 407 South Goodwin Avenue, Urbana, IL 61801. Telephone: 217/333-1734. Please include your curriculum vitae, reprints of recent publications, and names of three references. The proposed starting date for this position is 15 June 1986.

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

FACULTY POSITION IN ANATOMY

The Department of Anatomy of the New York State College of Veterinary Medicine at Cornell University seeks applications for a tenure-track position available 1 July 1986. Applicants should hold a Ph.D., D.V.M., and/or equivalent degree and interests in problems relevant to domestic species are desirable. Salary and rank are dependent on the qualifications and experience of the successful applicant.

Applicants' should have demonstrated a strong commitment to research and have experience in the use of current methods in the areas of cellular or gross or functional morphology. Background and experience appropriate for participation in the teaching of veterinary students and fluency in English are essential. A desire to be involved in graduate education is important.

Applications should include curriculum vitae, a statement of career goals, and the names of three persons who are familiar with the candidate's research and/or teaching. Closing date for receipt of applications is 1 April 1986.

Professor Howard E. Evans, Chairman Department of Anatomy College of Veterinary Medicine Cornell University Ithaca, New York 14853 Telephone: 607-256-5454

YALE UNIVERSITY HUMAN CYTOGENETICIST

Should have training and personal experience in classical and molecular cytogenetic techniques to direct a clinical cytogenetics laboratory that processes blood, skin, bone marrow, amniotic fluid cell, and chorionic villus biopsy samples.

Candidates should have a Ph.D. and/or M.D. degree and postdoctoral training and should be ABMG-certified or -cligible. Candidates should have experience with high-resolution chromosome banding, cell culture, in situ hybridization of molecular probes to human chromosomes, and with the organization and direction of a clinical service laboratory. Candidates should have a strong interest in research and be willing to interact and collaborate with clinicians, genetic counselors, and basic scientists in a large academically oriented Department of Human Genetics.

Appointment will be as director of cytogenetics laboratory at the assistant or associate professor level, depending on qualifications and experience. Send curriculum vitae and names, addresses, and telephone numbers of three references to: Chairman of Search Committee, Department of Human Genetics, Yale University School of Medicine, P.O. Box 3333, New Haven, CT 06510-8005. Deadline for applications is 1 May 1986. *Yale University is an Equal Opportunity/Affirmative Action Employer.*

The University of Michigan Medical School, Department of Anesthesiology, may have, from time to time, several positions available at the **INSTRUCTOR** through **PROFESSOR** level. Board-certified or -eligible anesthesiologist qualified to obtain Michigan licensure. Research, clinical, and didactic experience necessary. Reply to **Box 32**, **SCIENCE**. A nondiscriminatory, Affirmative Action/Equal Opportunity Employer. BIO-MEDICAL

IMMUNOLOGY/VIROLOGY MICROBIOLOGY

E.N.I. is currently expanding the Research & Development activities at the Columbia, Md Headquarters Laboratory, creating professional openings in the following areas:

Generation and analysis of monoclonic antibodies to viruses by a variety of immunization and fusion techniques in the hybridoma group.

Growth, inactivation and purification of virus in P-3 environment. Experience in separation technologies including HPLC.

Development of rapid diagnostic assays using agglutination technology.

Above positions require a PhD and appropriate Life Science discipline, and 1-4 years experience in a commercial biomedical diagnostic environment. Please send C.V. in confidence to:



ELECTRO-NUCLEONICS, INC. 7101 Riverwood Drive Columbia, Md. 21046 equal opportunity employer M/F

Drug Metabolism Analytical Chemists

The Drug Metabolism Department of SK&F Laboratories is seeking scientists experienced in HPLC. Primary responsibilities include developing novel HPLC assays for drugs and their metabolites biological media; conducting pharmacokinetic studies in animals and man; participating in basic research programs in drug metabolism designed to assist in drug development and discovery and publishing results.

The successful candidate will have:

- M.S. in Analytical Chemistry, Biochemistry, Chemistry, or related discipline with 1-2 years experience in an analytical lab or B.S. in Chemistry with 3-5 years analytical experience.
- Demonstrated experience in bioanalytical methods development (HPLC) for drugs in biologic media required.
- Additional experience in bioanalytical methods (GC, RIA, liquid scintillation counting) preferred.
- Proven research ability evidenced by scientific publications desirable.
- Knowledge of pharmacokinetics/biopharmaceutics useful.
- Excellent communication and interpersonal skills required

SK&F Laboratories is located near Valley Forge, PA in a new state-of-the-art research complex. We offer an excellent salary, benefits, and relocation package as well as opportunities for personal and professional growth. Please forward your c.v. to George P. Kissell, Jr., Manager, Personnel Relations, SK&F Laboratories, 1556 Spring Garden Street, Philadelphia, PA 19101. We are an equal opportunity employer, M/F/H/V.



TOXICOLOG

Cetus Corporation, a leader in biotechnology-based therapeutics for treatment of cancer and infectious disease, seeks an experienced Toxicologist. This individual will join other toxicologists in a growing Toxicologist Department including excellent support staff and a veterinary pathologist. This toxicologist will be responsible for the design and implementation of safety assessment procedures, will act as a consultant for research on new therapeutic proteins, and will serve as liaison scientist for extra-mural CLP studies. Three or more years of experience in a pharmaceutical company or contract laboratory, and demonstrated excellence in the areas described above, are required.

Please send your resume in confidence to:

CETUS CORPORATION Box JKT 1400 Fifty-third Street Emeryville, CA 94608

E/O/E

cetus

ODENSE UNIVERSITY DENMARK

PROFESSOR OF ECOLOGICAL TOXICOLOGY

A position as Professor of Ecological Toxicology is vacant at the Institute of Biology, Odense University, Denmark. It is desirable that applicants have a broad background knowledge in analytical chemical and ecological/physiological aspects of environmental toxins. Research at the Institute mainly concerns environmental responses and adaptation mechanisms in aquatic animals. The Institute is well equipped with modern apparatus and has a field laboratory with running sea water. Additional information, including the full text of the advertisement, can be obtained from the Chairman.

Foreign applicants are expected to be able to teach in the Danish language within a few years of appointment.

The employment field covers the Ministry of Education and the institutions under it. The wage fram is 37, and the salary amounts to Danisk Kroner 328.812,81 a year inclusive of bonuses as per 1 October 1985.

A professional selection committee will discuss the applications and their recommendation will be sent out to all applicants in its complete form.

The application should contain information about the candidate's teaching experience.

Further details can be obtained by contacting Professor Axel Michelsen, tlf. (09) 158600, 2466.

Applications in 5 copies, marked "Position no. 0017" enclosing curriculum vitae and documentation for professional and pedagogical activities must be made to the Queen and sent together with all enclosures also in 5 copies to: Personalekontoret, Odense University, Campusvej 55, DK 5230 Odense M, Denmark, so that we will receive it on 8 April 1986 at the latest.

FACULTY POSITIONS IN BIOCHEMISTRY BAYLOR COLLEGE OF MEDICINE

During a period of expansion, several new faculty positions are available at the level of assistant/associate professor, to begin during the 1986 to 1987 academic year. Additional appointments are expected in the fol-lowing year. Although the areas of research are flexible, output of a gandidate in the areas of research are deviloutstanding candidates in the areas of cellular and devel-opmental biochemistry and physical analysis of biological structures are encouraged to apply.

Candidates should have a strong research record, including postdoctoral experience. Successful applicants will be expected to develop a rigorous research program and participate in teaching graduate and medical students

Candidates should submit curriculum vitae, summary of past research and future research plans, and the names of three references to Dr. Susan Berget, Biochemistry Search Committee, Biochemistry Department, Baylor College of Medicine, One Baylor Plaza, Houston, Texas 77030. Applications will be considered until the positions are filled. Interviewing is expected to begin April 1986. Baylor Callege of Medicine is an Affirmative Action/Kenuel Optimizing Emiliant Action/Equal Opportunity Employer.

ST. JOHN'S UNIVERSITY, NEW YORK DEPARTMENT OF BIOLOGICAL SCIENCES

The Department of Biological Sciences, a Ph.D.-granting department, invites applications for two tenure-track positions. We are seeking individuals interested in developmental biology, biotechnology, or cellular physiology, particularly including, but not limited to, control of genetic activity, developmental neurobiology, cytoskeleton or control of cell morphology, and metabolic regula-tion. Teaching at both undergraduate and graduate levels is expected. Applicants should have a Ph.D. and postdoctoral experience and be capable of generating external research funding. The positions are offered at the assist-ant professor level, but higher rank may be considered. Candidates should submit curriculum vitae, a brief statement of research interest, record of extramural funding, and names of three references before 31 March 1986 to: Dr. Richard A. Lockshin, Department of Biological Sciences, St. John's University, Jamaica, New York 11439.

An Equal Opportunity Employer, M/F

TENURE-TRACK FACULTY POSITION IN CELL BIOLOGY. The Department of Thoracic Surgery of the University of Texas System Cancer Center (UTSCC), M.D. Anderson Hospital and Tumor Institute, seeks applications for a position at the assistant professor level. Applicants must have a relevant Ph.D. or M.D. degree, postdoctoral training, and evidence of ability to establish an independent research program. We are particularly interested in individuals with experience in establishing and characterizing human tumor cells in tissue culture. Experience with chemically defined media and clonogenic assay techniques is also advantageous. Send curriculum vitae, reprints of published works, and letters from three references to: Jack A. Roth, M.D., Thoracic Oncology Section, Building 10, Room 2B07, National Institutes of Health, Bethesda, Maryland 20892. The UTSCC is an Equal Opportunity/Affir mative Action Employer.

The Department of Anatomy and Neurobiology at the University of Tennessee, Memphis, is recruiting for **NEUROBIOLOGISTS** at the associate or full professor level with Ph.D. and/or M.D. Send curriculum vitae, description of research interest, and names of three references to: S. T. Kitai, Chairman, The University of Tennessee, Memphis, Tennessee 38163. Deadline for application: 30 April 1986. The University of Tennessee, Memphis, is an Affirmative Action/Equal Opportunity Employer

VISITING ASSISTANT PROFESSOR OF BIOLO-GY. One-year replacement; Ph.D. required, Duties com-mence 26 August 1986. To teach sophomore-level gen-eral microbiology with laboratory (fall), winter term (January, topic optional), molecular genetics with labo-(Jandar), topic optional), molecular genetics with fabo-ratory (spring—upper level), two other courses (one in fall, one in spring). Application, including curriculum vitae, publication list, statement of aims, and letters from three references, by 30 March 1986, to: Professor Allen Rogerson, Biology Department, St. Lawrence Uni-versity, Canton, NY 13617.

An Affirmative Action/Equal Opportunity Employer.

HUMAN GENETICIST/MOLECULAR GENETI-CIST. Ph.D. or M.D. fellow to conduct research in the genetic organization and expression of human gastrointestinal proteases, growth factors, and hormones. Re-search experience will include (i) cDNA and genomic libraries; (ii) gene mapping by somatic cell, family stud-ies, and in situ hybridization; (iii) DNA sequencing; and (iv) hybridomas. Participation in the University of California, Los Angeles, training programs in human genet-ics and gastroenterology is encouraged. Send inquiry, résumé, reprints, and names of references to: Dr. R. Thomas Taggart, Human Genetics Research (151M), VA Medical Center, UCLA Department of Medicine, Sepulveda, CA 91343.

INSTRUCTOR, St. Lawrence University. One-year replacement. Coordinator of Freshman Laboratories, to assist in the instruction of the introductory biology courses. Duties commence 26 August 1986, include set up and presentation of laboratory materials, supervision of student teaching assistants, and student contact in recitation and laboratory sessions. Master's degree required and preferred as highest degree; background must be suitable for instruction in general biology. Closing date: 30 March 1986. Send résumé, transcripts, and three letters of recommendation to: Mrs. C. Budd, Biology Department, St. Lawrence University, Can-ton, NY 13617. An Equal Opportunity/Affirmative Action Employer

LABORATORY POSITIONS

Biochemist/biologists B.S., M.S. with experience in pre-paring monoclonal antibodies, isolating, identifying and purifying viral proteins, and peptides for an established immunology research laboratory. Send curriculum vitae and three letters of reference to: Personnel, University of South Florida/All Children's Hospital, Box 24 St. Petersburg, FL 33701.

MACROMOLECULES, GENES, AND COMPUT-ERS. 12 to 17 August, White Mountain Conference Center, Waterville, New Hampshire. Sponsored by Gen-Bank-Los Alamos and MBCRR-Harvard University and Dana-Farber Cancer Institute.

Subjects included are comparative sequence analysis; macromolecular recognition and structures; regulatory pattern identification; molecular evolution; database earches; gene organization and genetic maps; and related mathematical and computer considerations. The em-phasis will be on unsolved problems in the interpretation and analysis of molecular sequence data. There will be workshops on the use of current computer software and databases, as well as graphic and other computer tools. Attending researchers are encouraged to contribute papers to the poster sessions and/or open workshops. These may be on any molecular biology sequence or structural analysis applications or on new relevant software develmals, is \$360. Limited travel and registration fee sup-port is available. Arrangements are also possible for friends and family attendance. For further information and applications, write: Dr. Temple S. Smith, MBCRR, Director, or Karen D. Gruskin, Meeting Coordinator, Dana-Earber Cancer Institute 44 Bin-Coordinator, Dana-Farber Cancer Institute, 44 Bin-ney Street, Boston, MA 02115; telephone 617-732-3601.

MEDICAL WRITER. Major international public relations firm seeks medical writer to work on pharmaceuti-cal/health care accounts, in New York City office. Chal-lenging, diverse job with growth potential. Candidate must have experience writing on medical topics for a lay audience. Newspaper or wire-service experience and strong science background (Ph.D) preferred. Excellent salary and benefits. Send résumé and three writing samples to: **Box 12, SCIENCE.**

MICROBIOLOGIST. The Department of Medicine of the New York Medical College has an immediate openund new York Interfeat Conge has an initiate open-ing available at any level for a microbiologist to join a multidisciplinary research program on Lyme disease. Qualifications include an M.D. (or Ph.D.) with special-ized interest in spirochete infections. Applications, in-cluding curriculum vitae, summary of research interests, and more and educate of four orference chevid by and names and addresses of four references, should be sent by 15 April to: Chairman, Search Committee, Macy Pavillion 208 S.E., New York Medical College, Valhalla, NY 10595.

ENVIRONMENTAL CHEMIST

The Lawrerice Berkeley Laboratory's Ap-plied Science Division is seeking an out-standing chemist to serve as Principal Investigator and to contribute to the lead-ership of the Building Ventilation and Indoor Air Quality Program. The scientist chosen will have responsibility for re-search efforts on characterization and chemistry of indoor atmospheric pollut-ants, including both emissions and reac-tion products from indoor combustion sources. building materials and consources, building materials, and con-sumer products.

This position requires strong scientific leadership experience and a publications record which clearly demonstrates excel-lence in independent research. A demonstrated ability to secure funds would be desirable. Substantial instrumental background is also required. Although a Ph.D. in Analytical Chemistry, Physical Organic Chemistry, or Physical Chemis-try is preferred, other areas of chemistry are not excluded.

To apply for this position, please send TWO resumes, including salary history, to: Employment Office, Building 90, Room 1042, Lawrence Berkeley Labora-tory, One Cyclotron Road, Berkeley, CA 94720. Please specify Job #A/2848. LBL is an Affirmative Action/Equal Opportuni-ty Employer, M/F/H.



LAWRENCE

LABORATORY

BERKELEY

Ph.D., M.S., B.S. Levels

Hana Biologics, Inc. is a leader in the application of biotechnology and cell biology for production of therapeutic, diagnostic, and research reagents. Hana currently has openings at the Ph.D., M.S., and B.S. levels for individuals with expertise in cell biology, molecular biology, immunology, biochemistry, immunochemistry, clinical histopathology, endocrinology and flowcytometry.

Salary and benefits are commensurate with gualifications and experience. Applications should include C.V., three references, and publication record where applicable.

Please send applications to:



Hana Biologics, Inc. 626 Bancroft Way Berkeley, California 94710 Attn: Personnel Director-Dept. R

RESEARCH SCIENTISTS

Southern Research Institute has immediate positions available for qualified professionals in the following fields:

Toxicology

Positions available for inexperienced candidates with PhD in general toxicology and for candidates with minimum of 2 years post-doctoral experience in teratology or reproductive toxicology. Duties involve using in vivo toxicological models for evaluation of a variety of compounds for industry and government.

Veterinary Pathology

Position requires DVM or PhD in veterinary or comparative pathology with board certification or eligibility. Duties involve participation with four other pathologists in gross and histopathological evaluation of toxicologic and carcinogenic bioassay studies.

Cell Biology

Position requires PhD in cell biology, cellular immunology or other related field and minimum of 3 years appropriate post-doctoral experience. Background in tumor biology, radiation biology, or immunotoxicology desirable. Duties include supervising existing cell biology laboratory, providing leadership for expansion of cell biology program, and providing collaboration and support for extensive in vivo evaluation of anti-tumor drugs.

Located in a 20-acre complex and with a staff of over 700, Southern Research Institute is a diversified contract research organization in its fifth decade of operation. The Birmingham area, with a population of one million, offers a mild four-season climate, lower-than-average cost of living, diverse recreational and cultural opportunities and a variety of convenient housing alternatives. To apply, contact Denise Johnson, Personnel Administrator:



Biochemist/ Cell Biologist

Pfizer Central Research has a position for a biochemist or cell biologist to pursue research aimed at the discovery of new cancer control therapies. You will be expected to par-ticipate in research on lymphoid cell-derived cytolytic molecules and other additional biological response modifiers with potential to modulate tumor progression and metastatic spread.

You must have a PhD in biochemistry, cellular immunology, or cell biology and have completed at least one postdoctoral fellowship in biochemical aspects of cell-mediated immunology; particularly in laboratories concerned with mechanisms of cell-mediated cytotoxicity. Experience with enrichment of lymphoid sub-populations, and biochemical isolation of cytolytic and cytotoxic molecules will be especially valuable

This position offers an excellent opportunity for professional recognition and career growth. We offer competitive compensation, benefit package and the opportunity to live in an pensation, benefit package and the opportunity to live in an attractive Connecticut shore community. Please send resume and description of research accomplishments to: Jerry K. Larson, PhD, Manager of Employment, Pfizer Central Research, Eastern Point Road, Groton, CT 06340.



ELECTRON MICROSCOPIST

As an internationally recognized leader in the medical care products and services industry, Travenol Laboratories is making important advances in clinical research. A position is now available in the electron microscopy area of our Round Lake Technical Center.

Working with a JEM-1200 EX, this individual will perform transmission electron microscopy. In addition, this individual will be responsible for the use and maintenance of the laboratory in the application of electron microscopy to ongoing basic and applied research projects

We require a recent Ph.D. or equivalent, with experience in electron microscopy in biology, toxicology or pathology. It is essential to have expertise in biological sample preparation and TEM. Knowledge of material science and microscopy with SEM, STEM, and EDS applications would be desirable.

Travenol provides an excellent salary and benefits package for confidential consideration, please send your resume with salary history to:



Staffing/Manpower Planning Travenol Laboratories. Inc. Dept. WH P.O. Box 490 Round Lake, IL 60073

Equal Opportunity Employe

Vice Provost

for Research and Graduate Studies

SUNY Stony Brook invites nominations and applications for the position of Vice Provost for Research and Graduate Studies. The Vice Provost is responsible for all aspects of post-baccalaureate education, for overall supervision of the Graduate School and the Office of Research Administration and for fostering the development of research in the University. ment of research in the University.

The University enrolls 16,000 students, including 4,600 graduate and professional students, and consists of a College of Arts and Sciences, a College of Engineering and Applied Sciences, the W. Averell Harriman College for Policy Analysis and Public Man-agement and a Health Sciences Center that includes Schools of Medicine, Dental Medicine, Nursing, Social Welfare and Allied Health Professions and a 540-bed University Hospital. There are currently about 65 graduate programs. In 1985 sponsored re-ensative analysis of the state of t search program expenditures amounted to 50 million dollars.

Quantications include a record of academic distinction and schol-arly achievement, as well as evidence of outstanding administra-tive abilities. We particularly wish to encourage applications from women and minority groups. The position will be available at the earliest on September 1, 1986. Qualifications include a record of academic distinction and schol-

In order to receive maximum consideration, applications should be sent by March 31, 1986 to: Chairman, Search Committee, Vic Provost for Research and Graduate Studies, S.U.N.Y., Stony Brook, N.Y. 11794-4348.

Star Hursen Alter of SUNY Stony Brook is an affirmative action/equal opportunity educator and employer. AK#33-86.



MAMMALIAN DEVELOPMENTAL GENETICS

The Section of Genetics and Development of the Division of Biological Sciences at Cornell University is seeking to make a faculty appointment in mammalian developmental genetics at the assistant professor level. Candidates should be interested in joining a unit of individuals who have considerable genetic interests in their research and teaching. Beyond an active research program, applicants should have a disposition to the teaching of mammalian and/or human genetics at the undergraduate level.

Applications will be reviewed beginning 1 April 1986 and employment of the successful candidate is anticipated in the fall of 1986, or later by negotiation. Applications should include curriculum vitae, a statement of proposed research objectives, and three letters of recommendation. Applications, letters, and inquiries should be directed to: Dr. Antonie W. Blackler, Genetics and Development, Emerson Hall, Cornell University, Ithaca, NY 14853.

Cornell University is an Affirmative Action/Equal Opportunity Employer.

NATURAL SCIENCES WRITER

The Public Affairs Department of the American Museum of Natural History is seeking an experienced writer/ editor in the natural sciences. Position involves writing original material, serving as editorial adviser to staff scientists and other public affairs personnel, and preparing materials for media distribution. Qualified candidates must have a knowledge of zoological systematics and at least a bachelor's degree relevant to the position. Excellent benefits. For consideration, résumés must be submitted along with salary requirements to: Mr. Lee Vilensky, American Museum of Natural History, Central Park West at 79th Street, New York City, New York 10024.

An Equal Opportunity Employer

PHARMACOLOGIST/BIOCHEMIST

Nova Pharmaceutical Corporation, a company dedicated to the discovery of novel therapeutic and diagnostic products using the most current techniques, has an immediate opening for a pharmacologist/biochemist with at least 2 years of postdoctoral experience. The ideal candidate would be familiar with receptor-mediated mechanisms of gastrointestinal ion transport, absorption, secretion, and motility. Experience both with receptorbinding techniques and in vivo models would be helpful. The ability to initiate and conduct or to direct goaloriented research within a team framework, and a proven publication record, is essential.

Nova occupies new facilities at the Francis Scott Key Medical Center in Baltimore, and has strong intracampus links with the Johns Hopkins University, National Institute for Drug Abuse and National Institute of Aging. Nova has a full complement of chemical, biochemical, and pharmacological support personnel.

Nova offers competitive salaries and an excellent benefits package. For further information, please enclose a current résumé with salary requirements to:

current résumé with salary requirements to: Lydia K. Battaglia NOVA PHARMACEUTICAL CORPORATION 5210 Eastern Avenue Baltimore, Maryland 21224-2788

An Equal Opportunity/Affirmative Action Employer

1 July 1986 opening for Ph.D. IN THE PHYSICAL SCIENCES to participate in a NIH-supported training program. The program affords the opportunity to enter the field of radiological sciences through formal courses, participation in seminars, and involvement in research. Active research areas include PET, MRI, radiopharmaceutical development, kinetic modeling, and image processing. A requirement for appointment is either U.S. citizenship or a permanent U.S. visa. Address correspondence to: Dr. Nathaniel M. Alpert, Division of Radiological Sciences and Technology, Massachusetts General Hospital, Fruit Street, Boston, MA 02114.

POSITIONS OPEN

NEUROSCIENCE ASSISTANT PROFESSOR —University of California, San Francisco

The UCSF Department of Physiology is searching for a candidate whose primary research interest is in the organization and function of the vertebrate central nervous system for appointment at the assistant professor level. The successful candidate will conduct an independent research program, as well as take part in teaching and in the intellectual life of the department and the interdepartmental neuroscience program. Applications from women and under-represented minorities are particularly encouraged. Applicants should promptly send curriculum vitae, statement of research interests, and the names, addresses, and telephone numbers of three individuals from whom we may solicit letters of recommendation to:

Dr. Michael Stryker Search Committee Department of Physiology, S-762 University of California San Francisco, California 94143–0444

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

NMR IMAGING-SPECTROSCOPY NATIONAL INSTITUTES OF HEALTH PUBLIC HEALTH SERVICE

NMR facilities at NIH will include by September 1986 a 0.5 T and 2.0 T whole body scanner, 2.0 and 4.7 T animal imager-spectrometers, and a variable field T1-T2 analyzer. We have an opening for a physicist or other scientist with a strong NMR background. Applicant should have capability for independent research and interest in neurological applications. Applications from postdoctorals, as well as senior investigators, are welcome. *NIH is an Equal Opportunity Employer*.

 Dr. Giovanni Di Chino, M.D.
 Neuroimaging Section, NINCDS Building 10, Room 1C 453
 National Institutes of Health Bethesda, Maryland 20892
 Telephone: 301-496-6801

PHARMACOLOGY TEMPLE MEDICAL SCHOOL

The Department of Pharmacology at Temple Medical School invites applications for tenure-track faculty positions at the assistant professor and associate professor level. We seek individuals who will develop an active research program in the areas of molecular, cellular, cardiovascular, or neuropharmacology and teach medical and graduate students. Candidates should have a Ph.D., postdoctoral experience, and a strong record of research productivity. Please submit a résumé and a concise statement of research interests and arrange for three letters of recommendations to be sent to: Faculty Search Committee, Department of Pharmacology, Temple Medical School, 3400 North Broad Street, Philadelphia, Pennsylvania 19140. Affirmative Action/Equal Opportunity Employer.

QUEEN'S UNIVERSITY KINGSTON, ONTARIO

The Department of Biology invites applications for a **TENURE-TRACK POSITION IN PLANT BIOLO-**GY, preferably in the cell, molecular, or developmental area. The successful candidate should be prepared to develop a vigorous research program and to teach in the undergraduate and graduate programs and supervise graduate students. There is the potential to interact with an established biotechnology group. Qualifications include a Ph.D. degree and published evidence of excellent research ability. *Candidates of either sex are equally encouraged to apply*. The appointment will be effective 1 July 1986 (or as negotiated) and is expected to be at the rank of ASSISTANT PROFESSOR with salary commensurate with qualifications (present floor: \$26,850). In accordance with Canadian immigration requirements, this advertisement is particularly directed to Canadian citizens and permanent residents. Application deadline is 1 May 1986, or until a suitable candidate is selected. Send applications, which should include curriculum vitae, statement of future research interests, and names and addresses of three referees, to: Dr. D. T. Dennis, Head, Biology Department, Quen's University, Kingston, Ontario, Canada K7L 3N6.

POSITIONS OPEN

PHYSICIAN RESEARCHER HUMAN RETROVIROLOGY

Centocor, Inc., is seeking an individual with a medical degree and at least 5 years of research experience in human retrovirology with knowledge of techniques for the analysis of DNA, RNA, and proteins to lead a team in an AIDS research program. Salary: \$35,000 per year. Send résumé and three letters of reference to: Charles C. Cabot III, Director, Human Resources, Centocor, Inc., 244 Great Valley Parkway, Malvern, PA 19355. Equal Opportunity/Affirmative Action Employer.

PHYSIOLOGICAL PSYCHOLOGIST. The University of Wisconsin, Department of Psychiatry, is seeking to fill a project associate opening. This position is full time, with an initial appointment through June 1987, renewable annually. The applicant should have a doctorate in physiological psychology or a related area and 2 years of postdoctoral experience. The appointee will be expected to help sustain an ongoing research program in the area of controllability of stress and the relationship to endocrine, autonomic, and behavioral systems in rats. Candidates should send curriculum vitae by 1 March 1986 to: Ned Kalin, M.D., Wm. S. Middleton Veterans Hospital, 2500 Overlook Terrace, Madison, WI 53705.

PLANT MOLECULAR GENETICIST

The Department of Botany at the University of British Columbia is currently seeking applicants for a tenuretrack position in the area of plant molecular genetics, effective 1 July 1986, subject to final budgetary approval. The candidate is expected to establish an active research program in some aspects of this area and to participate in the teaching of both undergraduate and graduate courses in genetics. The position will be filled at the level of assistant professor.

Candidates for this position should have demonstrated expertise in recombinant DNA technology in plants and have at least 1 or 2 years of postdoctoral experience.

Applicants should submit curriculum vitae, including a summary of future research plans, and arrange for three letters of reference to be sent directly to:

Dr. Anthony Griffiths, Search Committee Chairman Department of Botany University of British Columbia Number 3529-6270 University Boulevard Vancouver, BC, Canada V6T 2B1

Salary commensurate with qualifications and experience. The application deadline is 31 March 1986. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada.

PLANT PHYSIOLOGIST-ECOLOGIST. Marietta College, a small four-year liberal arts college, is seeking to fill this tenure-track biology position at the Assistant **Professor** level, beginning 15 August 1986. Ph.D. required with primary interest in teaching. Principal duties include teaching courses in plant anatomy and taxonomy, plant physiology, field ecology, and introductory biology. Opportunities to guide independent student research are available. Expertise in computers desirable and a secondary expertise in molecular biology is preferred. Send résumé and three letters of reference by 28 March 1986 to: Dr. Peter E. Hogan, Chairman, Biology **Department, Marietta College, Marietta, Ohio** 45750.

Marietta College is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL FELLOW in insect physiologybiochemistry to study the regulation and function of proteins in insect diapause. Experience with methods used to characterize proteins is desirable. Available immediately. Salary: \$18,500 per annum. Send résumé, two letters of reference to:

Dr. G. M. Chippendale Entomology Department 1-87 Agriculture Building University of Missouri Columbia, MO 65211 Telephone: 314-882-8346 Equal Opportunity/Affirmative Action Employer.

SCIENCE, VOL. 231

Postdoctoral Scientist Medicinal Chemistry

The Department of Medicinal Chemistry of Smith Kline & The Department of Medicinal chemistry of Shifti Amile & French Laboratories is seeking a Postdoctoral Scientist to work in an environment designed to foster innovative research and promote personal and professional growth. Publication of research findings in leading journals and full interaction with the scientific community are strongly encouraged.

Candidates are required to have: • A Ph.D. in Medicinal or Organic Chemistry with 0 to 2 years postdoctoral experience. • Practical knowledge of modern spectral and chromatographic techniques.

- Excellent oral and written communication skills.

Preference will be given to those with some formal training in pharmacology, physiology or related biological sciences. An interest in synthesis and the relationship between chemical structure and biological activity is essential

The successful candidate will:

- The successful candidate will:
 Participate in the design and synthesis of agents that interact with enzymes or receptors particularly those in the gastrointestinal tract.
 Interact closely with scientists of various disciplines involved in the drug discovery process.
 Apply the principles of organic chemistry and molecular modeling to derive structure-activity correlations.

Postdoctoral positions are normally of two years duration

We are located near Valley Forge, PA in a new state-of-the-art research facility and offer an excellent salary, benefits, and relocation package. Please forward your c.v. to George P. Kissell, Jr., Manager, Personnel Relations, SK&F Laboratories, 1596 Spring Garden Street, Philadelphia, PA 19101. We are an equal opportunity employer, M/F/H/V.

Extramural Research

Scientist

Triton Biosciences Inc., an entrepreneurial subsidiary of Shell Oil Company, is an emerging force in the development of cancer diagnostics and therapeutics. Our company is built upon a strong base of research expertise, solid financial support, and sound management.

We are seeking a program manager to coordinate our extramural research efforts. This challenging assignment will involve setting up Triton-funded university research programs in cancer diagnostics and therapeutics, monitoring progress, and transferring product leads to the company's research laboratories. This is an excellent opportunity for an enterprising, multidimensional person to manage a variety of stimulating R&D programs at the leading edge of cancer research.

Candidates need a broad knowledge of cancer and particular knowledge of several aspects of current cancer research. They should also be familiar with other current biomedical research. A suitable background would be a Ph.D. in cell biology or immunology followed by 3-8 years experience in cancer research, including running a research group in a university or biotechnology company.

Triton is located in the San Francisco Bay Area and offers competitive salaries and benefits, including relocation assistance. For prompt consideration, please forward your c.v. with salary requirements and the names of three references to: Triton Biosciences Inc., Employee Relations, Dept. SC, 1501 Harbor Bay Parkway, Alameda, CA 94501. All candidates must have U.S. citizenship or permanent resident visa status. Triton is an equal opportunity employer.



HOFFMANN-LA ROCHE

Bronchopulmonary Research

Hoffmann-LaRoche currently has available two exciting career opportunities in Bronchopulmonary Research.

Senior Scientist

This individual will be responsible for the direction of a scientific technical staff involved in research to identify novel antiasthmatic agents.

Qualifications include a PhD in Pharmacology, Physiology, or Biochemistry and 1-3 years postdoctoral experience and a significant publication record. Familiarity with in vitro enzyme, receptorbinding, and bioassay techniques used for studying allergic mediator release, synthesis, or action is required. Experience in in vivo techniques for

measuring pulmonary function is desirable. For this position ONLY, please send your C.V. to: Sr. Scientist, c/o Mrs. Eleanor M. Malone, Professional Employment and Staffing Specialist.

Postdoctoral Fellow

We are seeking a recent PhD in Biochemistry or Pharmacology interested in biochemical studies concerning the role of calcium in smooth muscle contraction. Experience or interest in studying the role of Na-Ca exchange in smooth muscle contraction is desirable. To apply for this postdoctoral position ONLY, please send your C.V. to: Dr. Ann Welton.

An equal opportunity employer



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POLYMER CHEMIST to conduct research and development of photopolymers synthesis, formulation, and process for electronic printed-circuit boards. Require M.S. in chemistry with 2 years of experience or 2 years postgraduate education in polymer chemistry in lieu of experience. Salary: \$32,000 per year. Apply with résumé to: Georgia Department of Labor, One Peachtree Street, NW, Atlanta, Georgia 30303. Control Number GA 5122817.

POSTDOCTORAL/RESEARCH ASSOCIATE **POSITION** is available immediately to conduct research on gene transfer into mammalian embryos and the regulation of gene expression in transgenic animals. Background in molecular genetics and mammalian embryology is desirable. Please send curriculum vitae and the names of three references to: Dr. Robert E. Ham-mer, Howard Hughes Medical Institute, Department of Cell Biology, University of Texas Southwestern Medical School, 5323 Harry Hines Boulevard, Dallas, TX 75235.

POSTDOCTORAL-BIOPHYSICAL-BIOINOR-GANIC Ph.D. with biochemical or biophysical training and interest in metal ion-protein interactions. Applica tion of new laser spectroscopic methods and lanthanide ion luminescence to probe calcium-binding proteins and nucleic acids [(See Acc. Chem. Res. 384, 14 (1981); Biochemistry 24, 6639 (1985)]. Send curriculum vitae and letters of recommendation to: Professor William DeW. Horrocks, Jr., 152 Davey Laboratory, Depart-ment of Chemistry, The Pennsylvania State Universi-ty, University Park, PA 16802.

Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL FELLOW

Postdoctoral positions available in a compre Postdoctoral positions available in a compre-hensive program on the structure and function of excitable membrane proteins. Function is stud-ied using patch clamp, internal perfusion, mRNA injection, and reconstitution in lipid bilayers. Isolation and purification use chroma-tography, radioligand binding, development of monoclonal and polyclonal antibodies, specific neurotoxins, and recombinant DNA technology. Applicants must have experience in either struc-tural or functional methodologies and commit-Applicants must have experience in either struc-tural or functional methodologies and commit-ment to a broadly based approach. Send résumé and addresses for three letters of reference to: Arthur M. Brown, M.D., Ph.D., Professor and Chairman, Department of Physiology and Molecular Biophysics, Baylor College of Medicine, One Baylor Plaza, Texas Medical Center, Houston, Texas 77030.

POSTDOCTORAL FELLOW with molecular biology research experience wanted for project combining sitedirected mutagenesis and x-ray crystallography of a bacterial serine protease, or studies on extracellular secretchai scriffe protease, or studies on extracellular secre-tion, and processing of this protease in bacteria. Send curriculum vitae and names of three references to: Dr. David A. Agard, S-964 Department of Biochemistry, University of California at San Francisco, San Fran-cisco, CA 94143-0448.

POSTDOCTORAL FELLOW/RESEARCH ASSO-CIATE position available April 1986 from funded grant to study the genetic potential of specialized nuclei by means of nuclear transplantation. DEVELOPMEN-TAL/CELL BIOLOGIST with background in genetics and molecular biology desirable. Salary commensurate with qualifications. Send curriculum vitae and names of three references to: Dr. Marie A. DiBerardino, Department of Physiology and Biochemistry, Medical Col-lege of Pennsylvania, Philadelphia, PA 19129.

POSTDOCTORAL FELLOW/RESEARCH AS-SOCIATE available immediately for recent Ph.D.to participate in an active research program studying ocular inflammation and wound healing. Techniques include electron microscopy and immunocytochemistry. Experience in cell culture and protein isolation and purification desirable but not required. Send curriculum vitae and names of three references to: Ronald E. Smith, M.D. Department of Ophthalmology, University of South-ern California, Estelle Doheny Eye Foundation, 1355 San Pablo Street, Los Angeles, CA 90033.

POSITIONS OPEN

POSTDOCTORAL POSITION available 1 April 1986 for recent Ph. D to study mechanisms of mutagene sis using DNA molecules containing site-specific carcino genic adducts. Candidate should have working knowl-edge of molecular biology of nucleic acids. Previous edge of molecular biology of nucleic acids. experience in mutagenesis or DNA repair desirable. Please send curriculum vitae and three letters of reference to: Dr. Louis J. Romano, Department of Chemistry, Wayne State University, Detroit, MI 48202.

POSTDOCTORAL POSITION available summer 1986 to work on genes and enzymes involved in purine biosynthesis and one-carbon metabolism (write for further description of past and proposed research). Salary range: \$16,000 to \$18,000 per year, depending on qualifications. Initial appointment for 12 months, with possibility of reappointment for up to two additional years. Ph.D. in biochemistry or microbiology or molecular biology preferred. Send curriculum vitae and names of two references by 15 April to: Jesse C. Rabinowitz, Department of Biochemistry, University of California (UC), Berkeley, CA 94720. UC is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION IN CARCINOGENESIS

Candidates will synthesize carcinogen-modified oligonu cleotides for conformation and site-specific mutation studies. Experience in organic synthesis or molecular biology is desirable. Apply by sending curriculum vitae and three letters of reference to: **Dr. Thomas Meehan**, Department of Pharmaceutical Chemistry, University of California, San Francisco, CA 94143

POSTDOCTORAL POSITION IN SYSTEMATICS

Appropriate fields: aquatic biology, botany, entomology, Appropriate fields: aquatic biology, botany, entomology, herpetology, ichthyology, invertebrate zoology and pale-ontology, mammalogy, ornithology; also anthropology. Must have received Ph.D. within last 5 years. Pay \$19,500 plus \$1,000 expenses; begins as early as 1 September; normally a 1-year appointment. Provide résumé, research plan, and three retrences by 15 May to: Tilton Fellowship Committee, California Academy of Sciences, Golden Gate Park, San Francisco, CA 94118.

THE UNIVERSITY OF CHICAGO HOWARD HUGHES MEDICAL INSTITUTE DEPARTMENT OF BIOCHEMISTRY/ MOLECULAR BIOLOGY

POSTDOCTORAL POSITIONS are available for study of molecular mechanisms in the production and biological action of the hormones of the islets of Langerhans, with emphasis on insulin and its tissue receptor protein(s). Topics for investigation include prohormone sorting, packaging and proteolytic conversion mecha-nisms, studies on the targeting mechanisms and possible role of various thiol proteases and/or their precursors in the secretory pathway in the insulin-producing alpha cells, using available cDNA probes and recombinant DNA approaches, and purification, characterization, and study of the activation and proteolytic properties of procathepsin B and related proteases. Additional areas include regulation of prohormone gene expression in vivo and in vitro and continued studies of preproinsulin and insulin receptor variants in human subjects due to mutations or aberrant processing. Available resources include renovated HHMI, as well as departmental laboratories, the Diabetes Research and Training Center and the new John Crerar Science Library in the Division of Biological Sciences. Send applications to: Dr. Donald Steiner, University of Chicago, Howard Hughes Medical Institute, 920 East 58 Street, CLSC 739, Chicago, Illinois 60637.

POSTDOCTORAL POSITION available for studies of adhesive proteins from marine organisms. Work involves protein isolation, characterization and sequencing. and gene isolation and sequencing. Experience in protein chemistry and/or recombinant DNA techniques essential. Funding available for up to 3 years. Send résumé and names of three references to: Dr. Richard Laursen, Chemistry Department, Boston University, Boston, MA 02215. An Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

POSTDOCTORAL POSITION available to study cognitive-neuromotor effects of psychotropic drugs. In-volves assessment of relationship of pharmacodynamics to pharmacokinetics. Background in behavioral pharmacology desirable. Send curriculum vitae and names of three references to: Everett H. Ellinwood, Jr., M.D., Box 3870, Duke University Medical Center, Durham, NC 27710.

POSTDOCTORAL POSITION — Available immediately for an individual with Ph.D. or D.Sc. in biochemisately for an individual with Ph.D. or D.Sc. in biochemis-try and at least 2 years of postdoctoral laboratory train-ing. Experience in the molecular biology of gene isola-tion and characterization, as well as in biochemical and ultrastructural aspects of invertebrate collagen biosynthesis is essential. Applicants must be experienced in cell isolation and propagation, and in all contemporary meth-ods of molecular biology, cell biology, and electron microscopy. Salary range is \$18,000 to \$20,000. Appli-cants must send complete curriculum vitae and bibliography to: Department of Oral Biology, University of Connecticut Health Center, Farmington, CT 06032. An Affirmative Action/Equal Opportunity Employer, M/W/H.

POSTDOCTORAL POSITION for PHARMA-COLOGIST, PHYSIOLOGIST, or BIOCHEMIST to investigate one aspect of properties of catecholamine sulfates in mammals. Available anytime during 1986. Current major techniques utilized include HPLC, platelet uptake, enzyme activity assays, and in vitro organ perfusion. Send curriculum vitae to: Mary Ann Elchisak, Ph.D., Associate Professor of Pharmacology, School of Veterinary Medicine, Purdue University, West Lafayette, IN 47907. Equal Opportunity/Affirmative Action.

POSTDOCTORAL POSITION available immediately to investigate immunological abnormalities in chroni-cally transfused iron overloaded patients, some of whom have developed AIDS as a consequence of therapy. The research will focus on B-cell and NK defects, the role of iron/transfusion in their development and their contribution to and modulation by the development of AIDS. The candidate should be highly motivated and trained in cellular immunology. Minimum of 2 years; salary commensurate with experience. Prior to 1 April, send curric-ulum vitae and three letters of reference to: Robert W. Grady, Ph.D., Department of Pediatrics Room N-804, Cornell University Medical Center, 525 East 68 Street, New York NY 10021. Equal Opportunity Employer.

POSTDOCTORAL POSITION available immediately to study the transcriptional regulation of human liver genes during the acute phase response. Background in nucleic acid biochemistry, especially transcriptional analysis, would be helpful. Send curriculum vitae and names and addresses of three references to: Dr. David Perlmutter, Division of Cell Biology, Children's Hospital, 300 Longwood Avenue, Boston, MA 02115.

POSTDOCTORAL POSITION IN MOLECULAR ENDOCRINOLOGY available immediately. Research is in gene cloning and expression, structure-function relationships in prolactin and its receptor. Send curricu-lum vitae and names of three references to: Dr. K. E. Ebner, Department of Biochemistry, University of Kansas Medical Center, Kansas City, KS 66103. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCHER/MOLECU-LAR BIOLOGY. Genentech, Inc., a leader in the field of biotechnology, has a position in the Molecular Biology Department for a postdoctoral researcher to study the relationship between transcriptional activators [(see Cell, September 1985)], post transcriptional processing and translation using adenovirus and heat shock as model systems. Successful candidate will have a Ph.D. in molecular biology, cell biology, or other relevant degree

We offer an excellent salary and benefits package. Please send résumé to: Human Resources Department CG, GENENTECH, INC., 460 Point San Bruno Boule-vard, South San Francisco, CA 94080. An Equal Opportunity Employer.

- DNA CHEMISTS
- **BIOCHEMISTS**
- MOLECULAR BIOLOGISTS
- MICROBIOLOGISTS

GEN-PROBE, INC. is a rapidly growing San Diego based Biotechnology company specializing in the development of medical diagnostics utilizing DNA probe technology. With strong scientific, management and marketing expertise, Gen-Probe is making a significant impact in diagnostic testing. Gen-Probe offers an exciting scientific environment, excellent benefits and an attractive stock program.

We are currently seeking additional highly motivated research staff in DNA chemistry, biochemistry, molecular biology and microbiology (B.S., M.S., or PhD). Prior experience related to DNA probe technology is preferred but not necessary. Please send your resume in CONFIDENCE to:

PERSONNEL MANAGER GEN-PROBE, INC.

9620 Chesapeake Drive, San Diego, CA 92123



VIROLOGY RESEARCH

Abbott Laboratories is a \$3.3 billion leader in the medical products field recognized for its advancements in scientific research. We now have a position in virology research available in our growing Chemical and Agricultural Division.

This position will be responsible for conducting research and meeting production schedules in a product-oriented, goal-directed effort.

We require a Ph.D. in virology or the equivalent, consisting of 3-5 years experience. We will look for experience in improving methods for virus growth, purification and characterization. Thorough knowledge of cell culture and virus neutralization methods is essential.

We offer excellent salaries in addition to full benefits including profit sharing and stock retirement plan. Abbott Park, our corporate headquarters, is located in an attractive suburban area on the Lake Michigan shoreline just 30 miles north of Chicago. For confidential consideration, send resume with salary history to: **Martha Tuttrup/Corporate Placement**, **Dept. SM.** Abbott is an Affirmative Action Employer.

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POSTDOCTORAL POSITION JOHNS HOPKINS SCHOOL OF MEDICINE

One position is currently open for the study of the bioenergetics of African trypanosomes. Another position is likely to become available in September for work on the bioenergetics of eukaryotic cells. The focus of these studies will be on the molecular characterization of transport systems (particularly glucose and P_i) and on the characterization of proton ATPases and/or ATP synthases. Some experience with both molecular biology and protein purification is preferred, but not required. Please send application, including curriculum vitae, a statement of research interests, and names of three references to: Dr. Peter L. Pedersen, Department of Biological Chemistry, Johns Hopkins University School of Medicine, 725 North Wolfe Street, Baltimore, Mary-land 21205. An Affirmative Action/Equal Opportunity Employer

POSTDOCTORAL RESEARCH ASSOCIATE position available to study the structure, function, develop-ment, and plasticity of the neuromuscular junction, with ment, and plasticity of the neuromuscular junction, with emphasis on the presynaptic mechanisms. Techniques used include intracellular recording, freeze-fracture, elec-tron microscopy, and immunocytochemistry. Back-ground in neurobiology or cell biology needed. The position is renewable for up to 3 years. Please send curriculum vitae and names of two references to: **Dr. C. B. Ko. Denortment of Biological Sciences Library** P. Ko, Department of Biological Sciences, University of Southern California, Los Angeles, CA 90089-0371.

POSTDOCTORAL RESEARCH ASSOCIATES: Two positions are available to study membrane-cytoske-leton interactions and membrane biosynthesis in lymphocytes and platelets starting approximately 1 June 1986. A Ph.D. in biochemistry with 2 to 3 years of experience in membrane biochemistry and enzymology is desirable. Starting salary is \$17,000 to \$21,000 based on experience. Send a letter of research interest, curriculum vitae, and three letters of references to:

Dr. Lilly Y. W. Bourguignon Professor Department of Anatomy and Cell Biology University of Miami School of Medicine P.O. Box 016960 (R-124) Miami, Florida 33101

POSTDOCTORAL/RESEARCH ASSOCIATE IN CELL/MOLECULAR ENDOCRINOLOGY. Two positions available immediately on the regulation of pituitary/hypothalamic function. Seek innovative and determined biochemist/cell biologist/neuroendocrinologist. Experience in hormone receptors and molecular biology is desirable. Contact: Dr. Tony Antakly, Labo-ratory of Cell and Molecular Endocrinology, Department of Anatomy, McGill University, Montréal, Canada H3A 2B2.

PROFESSOR OF BIOCHEMISTRY UNIVERSITY OF GENEVA, FACULTY OF SCIENCE

Full-time appointment, different from the one advertised Full-time appointment, different from the one advertised in 1984. The successful candidate is expected to teach at undergraduate and graduate levels and to lead a strong research program. Teaching in French is required, but a period of adjustment can be granted. The position is available January 1987, negotiable. Applications should be sent by 30 April 1986 to: The Secrétariat de la Faculté des Sciences, Université de Genève, 20, quai Ernest Ansermet, CH-1211 Geneva 4, Switzerland, where inquiries also can be sent.

STAFF RADIATION THERAPIST

The University of Michigan Medical School, Department of Radiation Therapy, has on occasion open posi-tions for radiation therapists. In 1986, the newly constructed. University Hospital will be completed and occupied. The modern radiation therapy facility will include three linear accelerators, orthovoltage and superinclude three linear accelerators, orthovoltage and super-ficial units, two Oldelft simulators, computerized treat-ment planning, and a complete brachytherapy system. Academic rank will depend on qualifications and experi-ence. Interested persons should contact or send résumé to: Allen S. Lichter, M.D., Department of Radiation Therapy, 1405 East Ann Street, Room X3003, Uni-versity of Michigan Hospital, Ann Arbor, Michigan 48109. Telephone: 313-764-3271.

A nondiscriminatory Affirmative Action Employer

POSITIONS OPEN

POSTDOCTORAL RESEARCH ASSOCIATE position available immediately for research in renal physiology and biochemistry (metabolism of peptide hor-mones by the kidney and transport ATPases; isolated tubules and membrane vesicles). Experience with protein chemistry, RIA, HPLC, gel electrophoresis, and chro-matographic techniques required; familiarity with micro-dissection, tissue culture techniques, and microanalytical methodology desirable. Send curriculum vitae and names of three references to: Adrian I. Katz, M.D., Professor, Department of Medicine, Box 453, The University of Chicago, Chicago, IL 60637.

POSTDOCTORAL RESEARCH ASSOCIATE

Position available 1 April 1986 within the Microvascular Research Laboratory to investigate mechanisms regu-lating hepatic blood flow and carbohydrate metabolism in rats. Individual must have a biological science background and be independent and able to execute complex experiments and to analyze and interpret research results using an IBM-PCAT computer. Procedures include routine electron microscopic techniques, as well as special-ized histological, histochemical, biochemical, high resolution in vivo microscopic, and electro-optical methods. Familiarity with videodensimetric and image shearing techniques preferred, but not required. Foreward résumé to: Dr. Frank D. Reilly, Professor, Department of Anatomy, West Virginia University Medical Center, Morgantown, WV, 26506. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH POSITION available, involved in study of biochemistry/molecular biolo-gy of prostaglandin receptors. Experience in platelet biology helpful. Permanent resident or U.S. citizenship required. Please send résumé to: Asru K. Sinha, Ph.D., Division of Cardiology, Montefiore Medical Center, 111 East 210 Street, Bronx, NY 10467.

RESEARCH ASSOCIATE

A research associate position is currently available in a include crystal diffraction data acquisition and determi-nation of molecular structure for immunoglobulins. The job requires knowledge of crystallographic programming and computing, familiarity of diffractometry. Tools in-clude Nicolet P21 Diffractometer, PDP-1170 and Ridge 32 computer systems. Monday through Friday, 8 hours per day. Salary: \$20,000 annually. Minimum require-ments: Ph.D. in crystallography, including 2 years of crystallographic laboratory experience on structure analy-sis and computer programming. Please send résumé to:

Utah Job Service 1234 South Main Street P.O. Box 11750 Salt Lake City, UT 84147 REFERENCE ORDER NUMBER 38149

RESEARCH ASSOCIATE position available immediately to study mechanisms of drug actions utilizing the retina as a model system. Qualifications include a Ph.D. in pharmaceutical chemistry, biochemistry, chemistry, or related fields with strong instrumental and analytical chromatography skills. Experience and knowledge of HPLC with various methods of detection, TLC, and enzymatic techniques to determine mechanisms of drug actions both in vivo and in vitro are essential. Please send curriculum vitae and names and telephone numbers of three references to: Dr. C. G. Wong Department of Ophthalmology, University of Southern California, School of Medicine, 1335 San Pablo Street, Los Angeles, CA 90033; telephone: 213-224-7918.

RETROVIROLOGIST. The Johns Hopkins Medical Institutions are seeking an experienced virologist for a tenure-track position (M.D. or Ph.D.) with experience in isolation and analysis of retroviruses, including HTLV III/LAV. This person will collaborate in ongoing pro-grammatic studies of the epidemiology and pathogenesis of AIDS, and will be expected to initiate independent research activities. Salary and rank will be commensurate with training and experience. Johns Hopkins University is an Affirmative Action Equal Opportunity Employer. Appli-cations accepted until 31 March 1986. Position to be filled by September 1986. Send curriculum vitae and names of three references to: Dr. B. Frank Polk, Department of Epidemiology and Medicine, Johns Hopkins University School of Hygiene and Public Health, 615 North Wolfe Street, Baltimore, MD 21205

POSITIONS OPEN

RESEARCH ASSOCIATE to conduct immunologic research in dermatology using immunofluorescence and histochemical techniques. Requires Ph.D. in chemistry, 2 years of experience, 40 hours (8 to 4); \$16,000 per year. Send résumé to: New York State Job Service, 584 Delaware Avenue, Buffalo, NY 14202 DOT Number: 090.227 010, Job Order Number: 0101621.

RESEARCH SCIENTIST. To conduct research in flow, acoustics, high-voltage, and pulse power systems associated with gas lasers. Requirements: Ph.D. in physics or aeronautical engineering; 6 years of postdoctoral experience in gas and excimer lasers; demonstrated background in fluid dynamics. San Diego job site. Salary: \$50,000 per year. Send this ad and your résumé to: Job Number 3326, P.O. Box 865, Sacramento, CA 95804, not later than 15 March 1986.

Eugene Lang College — New School for Social Research seeks a SCIENTIST or HISTORIAN of 20th century science to develop socially and scientifically anchored courses in contemporary science policy issues. Field open; junior position, salary highly competitive; five seminars of teaching per annum (15 student limit per seminar). Send curriculum vitae to: Dean Margaret C. Jacob, New School for Social Research, 66 West 12 Street, New York, NY 10011.

VERTEBRATE PHYSIOLOGIST: Tenure-track po-sition beginning 25 August 1986. Ph.D. required. Pri-mary teaching responsibilities will be in comparative physiology, introduction to human biology, and physiologically oriented undergraduate courses in human biolo-gy, including exercise physiology. Contributions to biolgy, including exercise physiology. Contributions to biol-ogy courses as needed. Opportunities are available for interdisciplinary teaching and research and master's level graduate program. Publication is required for tenure. Apply by 15 April 1986. Send curriculum vitae, tran-scripts, and three references to: Dr. Joseph A. Mannino, College of Human Biology, ES-301, University of Wisconsin-Green Bay, Green Bay, WI 54301-7001. Equal Opportunity/Affirmative Action Employer.

VIROLOGIST

Department of Microbiology and Immunology and the Regional Primate Research Center UNIVERSITY OF WASHINGTON

The University of Washington seeks candidates for a joint appointment as a faculty member in the Depart-ment of Microbiology and Immunology and as a core staff scientist of the Regional Primate Research Center. Level of appointment is to depend on qualifications. Appointee will participate in the research and teaching activities of the department. Research activities to include, but not be limited to, opportunities provided by a very large, long-established colony of nonhuman primates. A research program that takes a molecular ap-proach to the study of viral pathogenesis, which could include viral immunology, would be particularly welcome. Previous primate experience not required. Primary selection criteria will be history of scientific excellence and promise of continued research and teaching perform-

and promise of continued research and teaching perform-ance of the highest standard. Send letter describing research interests, curriculum vitae, and names of three professional references by 28 March 1986 to: Edward A. Clark, Ph.D. Chairman, Search Committee Regional Primate Research Center, SJ-50 University of Washington Seattle, WA 98195 Telephone: 206-543-8706 Affirmative Action/Equal Opportunity Employer Affirmative Action/Equal Opportunity Employer

ZOOLOGIST. A tenure-track position as assistant pro-fessor beginning fall 1986. A broadly trained Ph.D. biologist who can participate in an introductory biology course. The successful applicant should have teaching and research interests in animal development and/or invertebrate physiology. Salary commensurate with expe-rience. Send curriculum vitae, a statement of research interests, and three letters of reference by 31 March 1986 to: Dr. Michael E. Seidel, Chair of Search Committee, Department of Biological Sciences, Marshall Univer-sity, Huntington, WV 25701. Marshall University is an Equal Opportunity/Afirmative Action Employer and invites and encourages applications from minorities and women. Eqi

AN INVITATION TO THE NOMINATION FOR THE KING FAISAL INTERNATIONAL PRIZE IN MEDICINE AND



THE KING FAISAL INTERNATIONAL PRIZE IN SCIENCE

The General Secretariat of the King Faisal International Prize, in Riyadh, Kingdom of Saudi Arabia, has the honour to invite the Universities, Academies, Educational Institutions and Research Centers all over the world to nominate qualified candidates for:

- 1. The King Faisal International Prize in Medicine. Topic: "**PREVENTION OF BLINDNESS**".
- 2. The King Faisal International Prize in Science. Topic: "MATHEMATICS".

which will be awarded in 1407 AH. i.e. 1987 AD.

- (a) Selection will be decided by a Committee consisting of national &international assessors selected by the Board of King Faisal International Prize.
- (b) More than one person may share the prize.
- (c) The Winner's names will be announced in December 1986, and the prize will be awarded in an official ceremony to be held for that purpose in Riyadh, Kingdom of Saudi Arabia.
- (d) Each Prize consists of:
 - 1. A certificate in the name of the winner containing an abstract of the work that qualified him/her for the prize.
 - 2. A precious medal.
 - 3. A sum of three hundred and fifty thousand Saudi Riyals (S.R. 350,000).
- (e) The following conditions must be fulfilled:
 - 1. A nominee must have accomplished outstanding academic work in the subject of the prize, leading to the benefit of mankind and enrichment of human thought.
 - 2. The prize will be awarded for specific original research but the nominee's complete works will be taken into account.

- 3. The works submitted with the nominations must have been published.
- 4. The specific works submitted must not have been awarded a prize by any international educational institution, scientific organization, or foundation.
- 5. Nominations must be submitted by leading members of recognised educational institutions and of world-fame such as Universities, Academies and Research Centers. Nominations from other individuals and political parties will not be accepted.
- 6. Nominations must give full particulars of the nominee's academic background, experience and publications, as well as copies of his/her educational certificates, if available. Three 6 x 9 cm photographs, full address and Telephone number of the nominee are also requested.
- 7. The nominations and selected publications (ten copies) are to be sent by registered air mail to the address stated in (10) below.
- 8. The latest date for receipt of the full nominations with copies of works is the **4th of Dhu Al-Hijjah 1406 AH. i.e. the 9th of August 1986 AD.** The nomination papers received after this date will not be considered unless the subject of the prize is postponed to the following year.
- 9. No nomination papers or works will be returned to the senders.
- 10. Enquiries should be made, and nominations should be sent, to the Secretary General of the King Faisal International Prize, P.O. Box 22476, Riyadh 11495, Kingdom of Saudi Arabia, Telex 204667 PRIZE SJ.

VISITING SCIENTIST IMMUNOLOGY

Several postdoctoral Visiting Scientist positions are open within the Immunology Group at Du Pont's Glenolden Laboratory in Pennsylvania. Successful candidates will conduct innovative basic research in cellular and molecular immunology with special emphasis upon the mechanistic action of lymphokines and their receptors. Candidates should possess a Ph.D. in Immunology, Biochemistry or Molecular Biology, preferably with experience in the field of lymphokines or membrane receptors. This one year assignment in our Central Research and Development Department is renewable for a second year upon mutual agreement.

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SYMPOSIUM

POLYMER NETWORKS - A SYMPOSIUM 15 to 16 May 1986. Polymer networks of formation kinetics, relaxation processes in networks, hydrogels, ionomers thermosets, new syntheses. Site: Institute of Materials Science at the University of Connecticut. For informa-tion, contact: Dr. S. H. Shaw, IMS U-136 97 North Eagleville Road, The University of Connecticut, Storrs, CT 06268; telephone: 203-486-4613.

CONFERENCE

THE NEW YORK ACADEMY OF SCIENCES CONFERENCE ON HUMAN OBESITY 19 TO 21 JUNE 1986 NEW YORK HILTON HOTEL, NEW YORK CITY

The conference will have as its focus the nature and the Ine conference will have as its focus the nature and the prime manifestations of "common" obesity in America. It will consider the various theories that have been proposed to explain the etiology and pathophysiology of obesity and will evaluate how well these formulations describe the actual behaviors and metabolisms of obese people. It will similarly evaluate the animal models often used to test hypotheses about the pathogenesis of obesity, or to determine the efficacy of proposed drugs or dictary treatments for the disorder, particularly from the standpoint of how faithfully these models actually paral-lel the human condition. Finally, it will assess new strategies for developing antiobesity drugs, diets, and devices.

There will be a limited number of contributed poster presentations. The deadline for the submission of ab-stacts is 31 March 1986. A 200-word summary of work to be presented should be sent to: Dr. Richard Wurtman, Laboratory of Neuroendocrine Regulation, Massachusetts Institute of Technology, Room E25-604, Cambridge, MA 02139.

ORGANIZERS:

Dr. Richard Wurtman, Laboratory of Neuroendocrine Regulation, Massachusetts Institute of Technology, Cambridge, MA.

and

and Dr. Judith Wurtman, Department of Applied Biologi-cal Sciences, Massachusetts Institute of Technology, Cambridge, MA.

Inquiries should be addressed to: Conference Depart-ment, The New York Academy of Sciences, 2 East 63rd Street, New York, New York 10021.

GRADUATE STUDY

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COURSES

SHORT COURSE IN MEDICAL AND EXPERIMENTAL MAMMALIAN GENETICS 7-18 July 1986

Conducted by The Jackson Laboratory and Johns Hop-kins University with support by the Lucille P. Markey Charitable Trust, March of Dimes Birth Defects Foundation, and National Institutes of Health. Lectures covering the entire field are supplemented by methodologic ing the entire field are supplemented by methodologic workshops in cytogenetics, biochemical screening, link-age analysis, and molecular genetics, as well as by demon-strations of mouse mutants and problems in clinical genetics. Held at The Jackson Laboratory. Inquiries and applications should be made to: Victor A. McKusick, M.D., 292 Carnegie Building, Johns Hopkins Hospi-tal, 600 North Wolfe Street, Baltimore, MD 21205; or to Thomas H. Roderick, Ph.D., c/o Training and Education Office, The Jackson Laboratory, Bar Har-bor. ME 04609. bor. ME 04609.

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIPS IN RE-PRODUCTIVE CELL BIOLOGY. Applications are invited for postdoctoral fellowships in newly established Reproductive Biology Research Laboratories, which will Reproductive Biology Research Laboratories, which will focus primarily on gametes, fertilization, and early devel-opment. You should have a strong research interest in these areas, as well as a background in one or more of the following fields: Immunology (including hybridoma technology), biochemistry (including protein isolation, HPLC and 2D gel techniques), and molecular genetics (including gene cloning and gene transfer). Since the Reproductive Biology Research Laboratories work closely with a successful in vitro fertilization therapy program there is an excellent opportunity for training in program, there is an excellent opportunity for training in this subspecialty.

Please submit your curriculum vitae and three refer-ences to: Dr. Ralph B. L. Gwatkin, Director of Reproductive Biology Research, The Cleveland Clin-ic Foundation, 9500 Euclid Avenue, Cleveland, Ohio 44106.

POSTDOCTORAL FELLOWSHIP JULY 1987-Pathologist or other biomedical scientist (M.D., D.D.S., D.V.M., Ph.D.) for 1- or 2-year program at the Armed Forces Institute of Pathology beginning July 1987. Excellent research training and educational opportunity. Generous support provided as a grant from the American Bergistry of Pathology *Faugul approximity beating*. Registry of Pathology. Equal opportunity position; women and minorities encouraged. Send curriculum vitae and brief statement of interests and qualifications to Box 31, SCIENCE, by 1 October 1986.

CALIFORNIA INSTITUTE OF TECHNOLOGY THE CHAIM WEIZMANN POSTDOCTORATE FELLOWSHIP FOR SCIENTIFIC RESEARCH IN **GEOLOGICAL AND PLANETARY SCIENCES**

Fellowships will be awarded for postdoctoral studies in

geological and planetary sciences at the California Insti-tute of Technology. These fellowships carry annual sti-pends of \$28,000 from fall 1986, and in addition offer a research-expense fund of \$1,000 per year. The duration of fellowships will normally be for 2 years. Applicants must be U.S. citizens.

This fellowship program has been established to offer scientists, typically within 2 years of receipt of the Ph.D., the best possible opportunity to develop their talents. Research will be encouraged in areas in which Caltech's faculty is currently active:

Atmosphere and Planetary Science Geochemistry and Petrology Geology and Geobiology Geophysics and Seismology

Application forms may be obtained from: Professor Peter J. Wyllie, Division of Geological and Planetary Sciences, 170-25, California Institute of Technology, Pasadena, CA 91125. Completed applications with references should arrive at Caltech before 1 April 1986.

Fellowship candidates will automatically be considered for other available postdoctoral positions at Caltech in their fields of interest.

Caltech is an Affirmative Action/Equal Opportunity Em-ployer. Women and minorities are encouraged to apply.

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIPS

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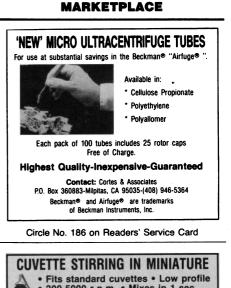
POSTDOCTORAL FELLOWSHIP

The biochemical and molecular pharmacology of antineoplastic agents. Studies focus on mechanisms of drug action, selectivity, and resistance within the context of a action, selectivity, and resistance within the context of a multidisciplinary program faculty working on basic as-pects of the cancer problem. Contact: Dr. I. David Goldman, Division of Biochemical Pharmacology, Medical College of Virginia, Box 230, MCV Station, Richmond, VA 23298.

POSTDOCTORAL FELLOWSHIP position available to study the motile behavior of pulmonary macrophages. Approaches include immunocytochemistry and use of computer-interfaced image analysis systems. Ap-plicants should have background in cell biology or immunology. Send curriculum vitae and names of three references to: Ronald P. Daniele, M.D., Director, Pulmonary Immunology Training Program, 807 East Gates, Hospital of University of Pennsylvania, 3400 Spruce Street, Philadelphia, PA 19104. Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIP IN NEUROPHYSIOLOGY

NIH grant to develop multichannel microelectrodes and record unit and slow wave activity from neural groups in the hippocampus and other brain structures in behaving animals. Work will be done at Massachusetts Institute of Technology and Wellesley College. Beginning summer 1986. Salary: \$19,000 per year. Applicants should have experience in neurophysiology or behavioral studies. Send letter of application, curriculum vitae, reprints, and letter of reference to: Howard Eichenbaum, Depart-ment of Biological Sciences Wellester College ment of Biological Sciences, Wellesley College, Wellesley, MA 02181. Wellesley College is an Equal Opportunity/Affirmative Action Employer.



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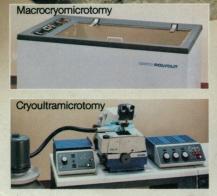
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