

Some Other Books of Interest

World's Debt to Pasteur. HILARY KOPROWSKI and STANLEY A. PLOTKIN, Eds. Liss, New York, 1985. viii, 343 pp., illus. \$39.50. Wistar Symposium Series, vol. 3. From a symposium, Philadelphia, Jan. 1985.

In 1885, after several years of experimental work, Louis Pasteur performed the first successful treatment of a human victim of rabies by inoculating him with progressively more virulent forms of the virus. This volume is the proceedings of a symposium held to mark the centennial of the event. The first of the volume's two sections, Perspectives on Pasteur, 1885-1985, opens with a "general sketch" of Pasteur's life and career, concluding with some comments on "the Pastorian legend," by the historian Gerald Geison. The eight other papers in the section include a consideration of Pasteur as a painter by Maya Starr and discussions by scientists of various subjects to which Pasteur's scientific work is relevant, among them fermentation, infections of silkworms, wine-making, the anthrax bacillus, and the Pasteur Institutes. The second section of the volume, Perspectives on Rabies from Pasteur to Today, generally less historical in character, consists of ten papers on rabies ranging in concern from molecular biology to public health. In all the volume has 43 contributors representing some ten countries. An index is included.—KL

A Spacefaring People. Perspectives on Early Spaceflight. ALEX ROLAND [Ed.] Scientific and Technical Information Branch, National Aeronautics and Space Administration, Washington, D.C., 1985 (available as S/N 033-000-0093-0 from Superintendent of Documents, Washington, D.C.). viii, 156 pp., illus. Paper, \$3.50. NASA History Series. NASA SP-4405. From a symposium, New Haven, Conn., Feb. 1981.

This collection consists of ten essays arranged in four groups followed by commentaries. The first essay, a "historical perspective" on space science and exploration by J. A. Simpson, which includes extensive chronological tables listing ventures in space exploration, is followed by an account by Pamela Mack of political controversies surrounding weather, communications, and earth survey satellites and a discussion by Arnold S. Levine of NASA management strategies. The second set of papers consists of a bibliographic essay on aerospace historiography by Richard P. Hallion and the text of a "keynote address" given by

John Noble Wilford. The third set opens with a discussion by John Logsdon of the U.S. space program as a subject for "policy history" and includes discussions of space activities in Europe by Walter A. McDougall and in the Soviet Union, Japan, and China by Edward C. Ezell. In the final pair of papers, Bruce Mazlish discusses "the forces justifying space exploration" and James A. Michener presents "a humanist's view." The commentators on the groups of papers are, respectively, I. B. Holley, Jr., Sylvia Doughty Fries, Richard S. Kirkendall, and Carroll W. Pursell, Jr.—KL

The Language of Risk. Conflicting Perspectives on Occupational Health. DOROTHY NELKIN, Ed. Sage, Beverly Hills, Calif., 1985. 200 pp. \$25; paper, \$12.50. Sage Focus Editions.

This book is an outgrowth of a research project on workers' perceptions of occupational risk. (For a review of an earlier work stemming from the project see *Science* 225, 708 [1984]). The book consists of six papers following an introduction by Nelkin: "The political language of risk: defining occupational health," by Stephen Hilgartner; "Disputed knowledge: worker access to hazard information," by Michael S. Brown; "Risk in the press: conflicting journalistic ideologies," by Chris Anne Raymond; "Ethical conflicts in occupational medicine," by Nelkin; "The misrule of law at OSHA," by Sheila Jasanoff; and "Sense and sentiment in occupational safety and health programs," by Mark Sagoff.—KL

Books Received

Abortion. Medical Progress and Social Implications. Pitman, London, 1985 (U.S. distributor, CIBA Pharmaceutical Company Medical Education Division, Newark, N.J.). viii, 285 pp., illus. \$35. Ciba Foundation Symposium 115. (London, Nov. 1984.)

Adaptive Mechanisms in Gaze Control. Facts and Theories. A. Berthoz and G. Melvill Jones, Eds. Elsevier, New York, 1985. xxviii, 386 pp., illus. \$109.25. Reviews of Oculomotor Research, vol. 1.

Adolescent Relations with Mothers, Fathers, and Friends. James Youniss and Jacqueline Smollar. University of Chicago Press, Chicago, 1985. viii, 201 pp. \$25.

Advanced Ceramic Materials. Technological and Economic Assessment. Noyes, Park Ridge, N.J., 1985. xx, 651 pp. \$64.

Advances in Behavioral Medicine. A Research Annual. Vol. 1. Edward S. Katkin and Stephen B. Manuck, Eds. Jai Press, Greenwich, Conn., 1985. xii, 299 pp. \$22.75; to institutions, \$47.50.

Chemical Water and Wastewater Treatment. Practical Experience and New Concepts. A. Grohmann, H. H. Hahn, and R. Klute, Eds. Gustav Fisher, Stuttgart, 1985. viii, 316 pp., illus. Paper, DM 60. Schriftenreihe des Vereins für Wasser-, Boden- und Lufthygiene, 62. Schriftenreihe des ISWW Karlsruhe, 40. From a symposium, Gothenberg, Germany, 1984.

Chemically Induced Birth Defects. James L. Schardein. Dekker, New York, 1985. xiv, 879 pp., illus. \$125. Drug and Chemical Toxicology, vol. 2.

Chemistry of Engine Combustion Deposits. Lawrence B. Ebert, Ed. Plenum, New York, 1985. viii, 379 pp., illus. \$69.50. From a symposium, Atlanta, March 1981.

Chemistry of Pyrotechnics. Basic Principles and Theory. John A. Conkling. Dekker, New York, 1985. x, 190 pp., illus. \$59.50.

Compartmental Analysis in Biology and Medicine. John A. Jacquez. 2nd ed. University of Michigan Press, Ann Arbor, 1985. x, 560 pp., illus. \$39.95.

Computer-Aided Data Analysis. A Practical Guide. William R. Green. Wiley-Interscience, New York, 1985. xviii, 268 pp., illus. \$29.95.

Contemporary Perspectives on Linnaeus. John Weinstock, Ed. University Press of America, Lanham, Md., 1985. x, 193 pp. \$24; paper, \$12.

Corpus of Maya Hieroglyphic Inscriptions. Vol. 5, Part 2. Eric von Euw and Ian Graham. Peabody Museum of Archaeology and Ethnology, Harvard University, Cambridge, Mass., 1984 (distributor, Harvard University Press, Cambridge, Mass.). pp. 65-127, illus. Paper, \$12.

Creep of Crystals. High-Temperature Deformation Processes in Metals, Ceramics and Minerals. Jean-Paul Poirier. Cambridge University Press, New York, 1985. xiv, 260 pp., illus. \$49.50. Cambridge Earth Science Series.

Engineering Graduate Education and Research. Engineering Education and Practice in the United States. National Academy Press, Washington, D.C., 1985. x, 121 pp., illus. Paper, \$14.95.

Environmental and Natural Resource Mathematics. American Mathematical Society, Providence, R.I., 1985. xii, 143 pp. illus. \$28. Proceedings of Symposia in Applied Mathematics, vol. 32. From a course, Eugene, Ore., Aug. 1984.

EORTC Genitourinary Group Monograph 2. Fritz H. Schroeder and Brian Richards, Eds. Liss, New York, 1985. 2 vols. Part A, Therapeutic Principles in Metastatic Prostatic Cancer. xx, 466 pp., illus. \$68. Part B, Superficial Bladder Tumors. xviii, 179 pp., illus. \$34. Progress in Clinical and Biological Research, vol. 185. From a symposium, York, England, Nov. 1984.

Essays in Human Sociobiology. Jan Wind, Ed. Academic Press, London, 1985 (distributor, European Sociobiological Society, Amsterdam). iv, 164 pp., illus. Paper, \$16. Reprinted from *Journal of Human Evolution* 13/1.

Essentials of Radiology Physics. Charles A. Kelsey. Green, St. Louis, 1985. x, 467 pp., illus. \$47.50.

A Eutrophic Lake. Lake Mendota, Wisconsin. Thomas D. Brock. Springer-Verlag, New York, 1985. xii, 308 pp., illus. \$43.50. Ecological Studies, vol. 55.

Historical Writing on American Science. Sally Gregory Kohlstedt and Margaret W. Rossiter, Eds. History of Science Society, Philadelphia, 1985. 321 pp., illus. Paper, \$29. *Osiris*, vol. 1.

Hormones and Cell Regulation. Vol. 9. J. E. Dumont, B. Hamprecht, and J. Nunez, Eds. Elsevier, New York, 1985. xii, 430 pp., illus. \$89. From a symposium, Sainte Odile, France, Sept. 1984.

Human Experimentation. Federal Laws, Legislative Histories, Regulations and Related Documents. Bernard D. Reams, Jr., and Carol J. Gray. Oceana, New York, 1985. xvi, 221 pp. In looseleaf binder, \$100.

Human Growth after Birth. David Sinclair. 4th ed. Oxford University Press, New York, 1985. x, 251 pp., illus. Paper, \$13.95.

Human Prenatal Diagnosis. Karen Filkins and Joseph F. Russo, Eds. Dekker, New York, 1985. xviii, 418 pp., illus. \$75. Clinical and Biochemical Analysis, vol. 18.

Hybridoma Technology in the Bioscience and Medicine. Timothy A. Springer, Ed. Plenum, New York, 1985. xxvi, 602 pp., illus. \$75.

Hydrodynamic Instabilities and the Transition to Turbulence. H. L. Swinney and J. P. Gollub, Eds. 2nd ed. Springer-Verlag, New York, 1985. xiv, 306 pp., illus. Paper, \$19.50. Topics in Applied Physics, vol. 45.

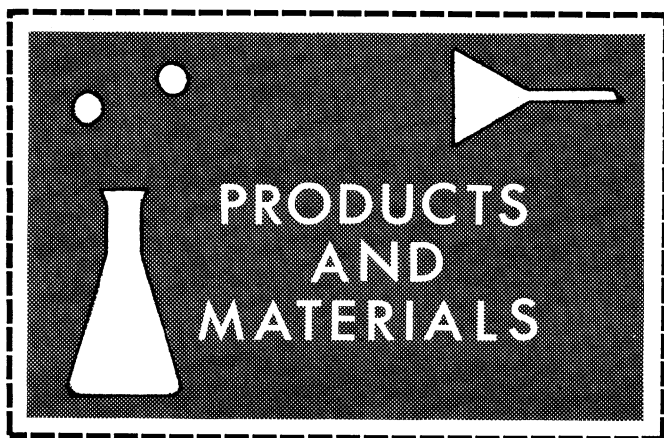
Microbial Tests for Mutagenicity/Carcinogenicity. Karl A. Traul, Ed. Van Nostrand Reinhold, New York, 1985. xvi, 237 pp., illus. \$38.50. Benchmark Papers in Microbiology Series.

Microenvironments in the Lymphoid System. G. G. B. Klaus, Ed. Plenum, New York, 1985. xxiv, 1080 pp., illus. \$139.50. Advances in Experimental Medicine and Biology, vol. 186. From a conference, Cambridge, England, Aug. 1984.

The Milky Way Galaxy. Hugo van Woerden, Ronald J. Allen, and W. Butler Burton, Eds. Reidel, Boston, 1985 (distributor, Kluwer, Hingham, Mass.). xxiv, 660 pp., illus. \$69; paper, \$32.50. International Astronomical Union Symposium no. 106. From a symposium, Groningen, Netherlands, May 1983.

Model Neural Networks and Behavior. Allen I. Selverston, Ed. Plenum, New York, 1985. xxiv, 548 pp., illus. \$69.50.

(Continued on page 965)



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A quantitative software package is available for the Lambda Array 3840 ultraviolet-visible spectrophotometer. Features include linear and nonlinear standard curve fitting; entry of one to five standards; recalculation of standard curve without rerunning standards; and permanent disk storage and retrieval of standard curve, coefficients, statistics,

and acquired data. The package comprises two floppy disks, an installation procedure, and an operator's manual. It may be installed on any version (BASIC, ENHANCED, and CUV-3) of the Lambda Array 3840 operating software. Perkin-Elmer. Circle 592.

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Literature

Sample Concentrator describes model 330 for gas chromatographic applications. Chemical Data Systems. Circle 606.

Spectroscopy Accessories is a buyer's guide to infrared and Fourier transform items for analytical chemists. Spectra-Tech. Circle 607.

Biological Response Modifiers gives details of adjuvant systems for use in veterinary vaccines. Ribi Immunochem Research. Circle 608.

Liquid Chromatograph Components covers performance features and specifications of apparatus for all phases of this critical separatory technique. Varian, Instrument Group. Circle 609.

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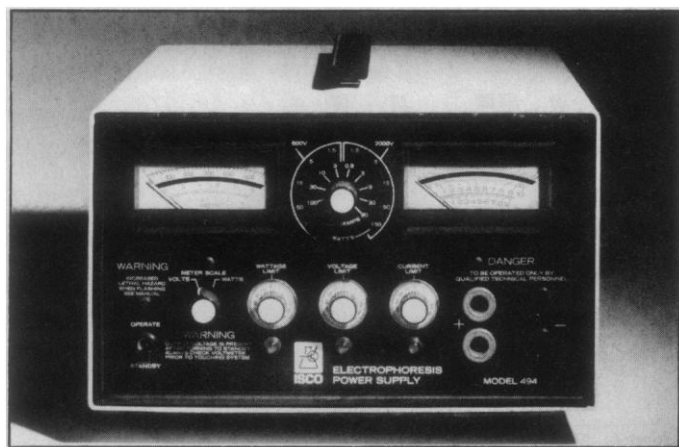
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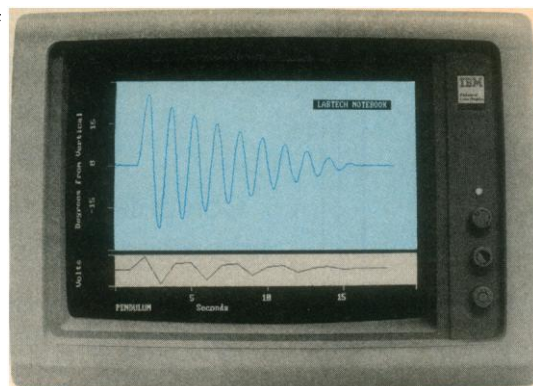


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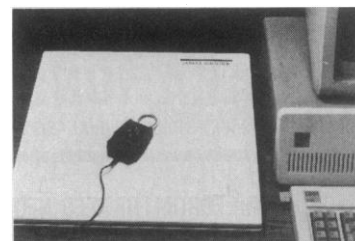
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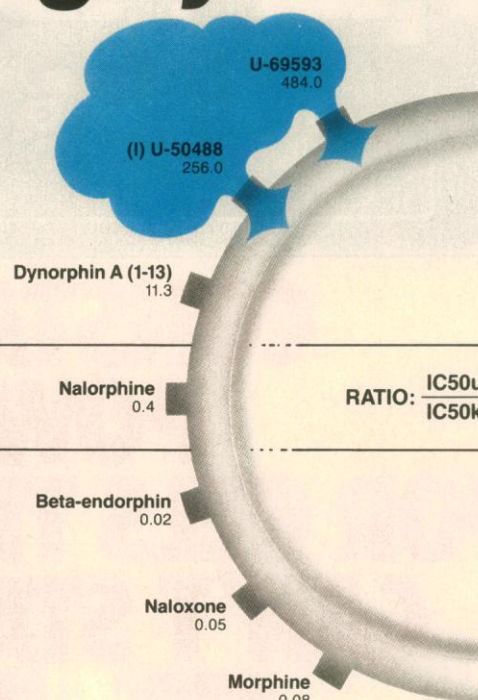
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Nalorphine	7.4	18	0.4
Beta-endorphin	5.0	230	0.02
Naloxone	8.2	160	0.05
Morphine	27.0	335	0.08

Ref. Lahti, R.A., et. al. *European Journal of Pharmacology*, accepted for publication.



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BOOKS RECEIVED

(Continued from page 934)

Models, Mechanisms and Etiology of Tumour Promotion. M. Börzsönyi *et al.*, Eds. International Agency for Research on Cancer, Lyon, 1984 (U.S. distributor, Oxford University Press, New York). xvi, 535 pp., illus. \$50. IARC Scientific Publications no. 56. From a symposium, Budapest, May 1983.

Modification of Proteins During Aging. Richard C. Adelman and Eugene E. Dekker, Eds. Liss, New York, 1985. xii, 122 pp., illus. \$32. Modern Aging Research, vol. 7. From a symposium, St. Louis, June 1984.

Neurobiology. Molecular Biological Approaches to Understanding Neuronal Function and Development. Paul O'Lague, Ed. Liss, New York, 1985. xviii, 192 pp., illus. \$68. UCLA Symposia on Molecular and Cellular Biology, New Series, vol. 24. From a symposium, Keystone, Colo., April 1984.

Organometallic Compounds of Cobalt, Rhodium and Iridium. C. White, Ed. Chapman and Hall, New York, 1985. xii, 291 pp., illus. Paper, \$40. Chapman and Hall Chemistry Sourcebooks.

Organometallic Compounds of Germanium, Tin and Lead. P. G. Harrison, Ed. Chapman and Hall, New York, 1985. xii, 180 pp., illus. Paper, \$33. Chapman and Hall Chemistry Sourcebooks.

Organometallic Compounds of Iron. G. R. Knox, Ed. Chapman and Hall, New York, 1985. xii, 477 pp., illus. Paper, \$49.95. Chapman and Hall Chemistry Sourcebooks.

Organometallic Compounds of Nickel, Palladium, Platinum, Copper, Silver and Gold. R. J. Cross and D. M. P. Mingos, Eds. Chapman and Hall, New York, 1985. xii, 333 pp., illus. Paper, \$40. Chapman and Hall Chemistry Sourcebooks.

Organometallic Compounds of Ruthenium and Osmium. G. R. Knox, Ed. Chapman and Hall, New York, 1985. xii, 283 pp., illus. Paper, \$40. Chapman and Hall Chemistry Sourcebooks.

Organometallic Compounds of Silicon. D. R. M. Walton and R. Lalanandham, Eds. Chapman and Hall, New York, 1985. xii, 318 pp., illus. Paper, \$40. Chapman and Hall Chemistry Sourcebooks.

Organometallic Compounds of the Lanthanides, Actinides and Early Transition Metals. D. J. Cardin *et al.*, Eds. Chapman and Hall, New York, 1985. xii, 400 pp., illus. Paper, \$49.95. Chapman and Hall Chemistry Sourcebooks.

Organometallic Compounds of Zinc, Cadmium and Mercury. J. L. Wardell, Eds. Chapman and Hall, New York, 1985. xii, 207 pp., illus. Paper, \$33. Chapman and Hall Chemistry Sourcebooks.

The Origins of Individual Differences in Infancy. The Colorado Adoption Project. Robert Plomin and John C. DeFries. Academic Press, Orlando, Fla., 1985. xvi, 408 pp. \$54.50. Developmental Psychology Series.

Short-Term Bioassays in the Analysis of Complex Environmental Mixtures IV. Michael D. Waters *et al.*, Eds. Plenum, New York, 1985. x, 384 pp., illus. \$59.50. Environmental Science Research, vol. 32. From a symposium, Chapel Hill, N.C., March 1984.

Simulation for Nuclear Reactor Technology. D. G. Walton, Ed. Cambridge University Press, New York, 1985. xii, 444 pp., illus. \$69.50. From a conference, Cambridge, England, April 1984.

Theory of Codes. Jean Berstel and Dominique Perrin. Academic Press, Orlando, Fla., 1985. xiv, 433 pp., illus. \$60. Pure and Applied Mathematics, 117.

The Third Millennium. A History of the World: AD 2000-3000. Brian Stableford and David Langford/ Knopf, New York, 1985. 224 pp., illus. \$20; paper, \$13.95.

Tidal Flat Ecology. An Experimental Approach to Species Interactions. Karsten Reise. Springer-Verlag, New York, 1985. x, 191 pp., illus. \$34.50. Ecological Studies, vol. 54.

Tinplate and Modern Canmaking Technology. E. Morgan. Pergamon, New York, 1985. xvi, 268 pp., illus. \$30; paper, \$12. Pergamon Materials Engineering Practice Series.

TNM-Atlas. Illustrated Guide to the TNM/pTNM-Classification of Malignant Tumours. B. Spiessel *et al.*, Eds. 2nd ed. Springer-Verlag, New York, 1985. xvi, 269 pp. Paper, \$14.50.

To Acknowledge the Wonder. The Story of Fundamental Physics. Euan Squires. Adam Hilger, Bristol, England, 1985 (U.S. distributor, International Publishers Service, Accord, Mass.). viii, 199 pp., illus. \$29.

Viral Mechanisms of Immunosuppression. Norbert Gilmore and Mark A. Wainberg, Eds. Liss, New York, 1985. xx, 284 pp., illus. \$44. Progress in Leukocyte Biology, vol. 1. From a workshop, Montreal, June 1984.

The Viruses. Catalogue, Characterization, and Classification. Heinz Fraenkel-Conrat. Plenum, New York, 1985. viii, 268 pp., illus. \$49.50.

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Cell/Developmental Biologist. Ph.D. botanical sciences, 1972. Thirteen years of experience in the area of cell surfaces. Demonstrated flexibility. Current grants from NSF and NIH. Experienced with the preparation of monoclonal antibodies, protein purification, electron microscopy, and molecular genetics. Desires a stable, productive environment for research in the Los Angeles area. Box 248, SCIENCE. X

Drosophila Geneticist, Ph.D. (1979). Six years of academic experience, with publications. Research areas include position effect and polytene chromosomes. Seeks full-time, tenure-track position in academia. Willing to relocate in the United States, Australia, or Canada. Available summer 1986. Box 245, SCIENCE. 11/22, 29

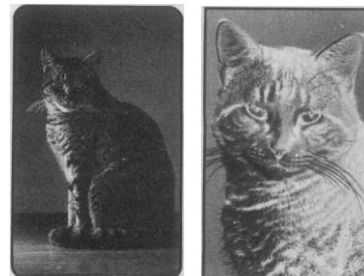
Cell Biology, Ph.D., as applied to cancer research, immunology, and radiation biology. Box 250, SCIENCE. 11/22, 29

Mammalian Cell Culture, Ph.D. Available immediately. Box 249, SCIENCE. 11/22, 29

Radiation Biology, Ph.D. Teaching, research, and clinical experience. Box 251, SCIENCE. 11/22, 29

Undergraduate Teaching. Cell biology; tissue culture. Box 252, SCIENCE. 11/22, 29

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POSITIONS WANTED

Immunologist, Ph.D. Senior scientist with extensive background in areas of hybridoma/monoclonal antibody development for use in cancer therapy and imaging, lymphokines, and cell-mediated cytotoxicity. Expert tissue culturist, with superior communication, writing, and supervisory skills. Excellent publications and references. Seeking responsible position in industry or academic laboratory. Box 247, SCIENCE. 11/22, 29; 12/6

Physiologist/Pharmacologist, Ph.D., with 8 years of experience in research. University, private, and government experience, including NRC senior associateship. Numerous publications. Experience with in vitro arterial and blood cell preparations and animal and human studies. Seeking position in academia or industry, with opportunity to publish extensively. Box 253, SCIENCE. X

Risk Analyst/Environmental Analyst. Broad experience in risk, environmental quality, policy studies. Widely published—100 articles and reviews, four sole-author books. Lectured in 13 countries on risk analysis. Former senior position in national laboratory. Has worked on interface between science and its public understanding. Box 235, SCIENCE. X

Virologist, Ph.D. Industrial and academic research experience in immunodiagnostics, large-scale virus production, AIDS, and recombinant DNA. Publications. Seeking position in industry or academia. Box 246, SCIENCE. 11/22, 29; 12/6

POSITIONS OPEN

JPL

The Jet Propulsion Laboratory (JPL), California Institute of Technology, is seeking a person to support the **air-sea interaction program**. Qualified applicants must have a M.S. degree in meteorology, oceanography, or related field and have a strong background in computer programming, as well as experience in computer applications. Duties will include geophysical data analysis and interpretation, particularly satellite data. Experience in atmospheric radiative transfer or ocean mixed layer modeling is preferred.

Please send résumé to: Professional Staffing, Department T40,

Jet Propulsion Laboratory
California Institute of Technology
4800 Oak Grove Drive
Pasadena, Calif. 91109

An Equal Opportunity Employer, M/F

ASSISTANT CHEMIST—Ph.D. in chemistry. Two years of postdoctoral training. Postdoctoral training should include research experience in solid-state synthesis and structural chemistry, including high-temperature synthesis and actinide chemistry, and experience in at least two of the following areas: magnetochemistry, spectroscopy, and radiochemistry. The above evidenced by publications in refereed journals and presentations at technical meetings. Formulate and perform basic research on solid-state chemistry of actinide and related elements. In particular: (i) Contribute to planning research activities as member of Heavy Elements Research Group; (ii) synthesize and study structural, magnetic, and electronic properties of solid actinide compounds of interest to long-range energy research; (iii) report results at scientific meetings and in scientific publications; (iv) collaborate with other group members and colleagues in contemporary research. Salary: \$2875 per month—40 hours per week; 8:30 a.m. to 5:00 p.m. Geographical area of employment: Southwest suburb of Chicago. Send resume to: **ILLINOIS JOB SERVICE, 910 South Michigan Avenue—Room 333, Chicago, Ill. 60605, Attention: Dennis Doligala, Reference Number 4961-D.** An Employer Paid Ad.

ASSISTANT PROFESSOR OF CHEMISTRY. The Department of Chemistry of the University of Pennsylvania is searching for an assistant professor (tenure track) with research interests in areas ranging from cell biology to biophysics, broadly defined as biological chemistry. An appointment at a more senior level may also be possible. Applications, including curriculum vitae, list of publications, short description of planned research, and three letters of recommendation, should be sent by 15 December 1985 to: **Biological Chemistry Search Committee, Department of Chemistry, University of Pennsylvania, Philadelphia, Pennsylvania 19104.** The University of Pennsylvania is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

The Department of Pharmacology at Oral Roberts University School of Medicine, Tulsa, Oklahoma, invites applicants for **TWO** tenure-track **ASSISTANT PROFESSOR POSITIONS**. Candidates must have 2 years of postdoctoral training and a record of research accomplishment. Candidates must be committed to developing a strong, independent, fundable research program and participating in medical and graduate teaching. Send curriculum vitae, brief statement of research interests, and the names and addresses of three references to: **Dr. J. L. Valentine, Chairman, Department of Pharmacology, Oral Roberts University School of Medicine, 8181 South Lewis, Tulsa, Okla. 74137.** Oral Roberts University is a Christian ministry that employs without regard to race, color, sex, age, handicap, national origin, or status as a veteran.

ASSISTANT/FULL PROFESSOR City University New York Medical School

Responsibilities include teaching in the broad areas of medical and human physiology: research, administrative, and those other duties specified in the by-laws of the university.

The successful candidate for this position should have a Ph.D. or M.D. degree and at least 2 years of postdoctoral research experience and a commitment to developing innovative teaching programs in the areas of medical and general physiology. Candidate should have a fundable research program. Research in cardiovascular, autonomic, neurotransmitters, and all other areas of physiology considered.

Salary: commensurate with experience and in accordance with applicable collective-bargaining agreement.

The position is available immediately after deadline date for receiving résumés.

Letters of application must include: a résumé or curriculum vitae; salary history; and the names, addresses, and telephone numbers of three professional references. Applications should be postmarked no later than 15 December 1985 and sent to: **Dr. Stanley Kalsner, Chairman, Department of Physiology, City University of New York Medical School.**

THE CITY COLLEGE OF CUNY
Convent Avenue at 138th Street
New York, N.Y. 10031

An Affirmative Action/Equal Opportunity Employer

ASSISTANT PROFESSOR OF BIOLOGY

The Department of Biological Sciences invites applications for a tenure-track assistant professorship to begin September 1986. Candidates should be involved in experimental population studies (in laboratory and/or field) on the evolutionary biology of vertebrates. The approach may be ecological, behavioral, genetic, or physiological. Send curriculum vitae, a précis of current and projected research plans, and at least three letters of reference to: **Dr. S. K. Shapiro, Head, Department of Biological Sciences, University of Illinois at Chicago, Box 4348, Chicago, Ill. 60680.** Applications will be accepted until 16 December 1985, or until the position is filled. The University of Illinois at Chicago is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION: EVOLUTION

Applications are invited for a tenure-track position at the rank of assistant professor to become effective 15 August 1986. A Ph.D. is required and postdoctoral or equivalent experience is preferred. Candidates should be qualified to teach an upper-level course in evolution and large introductory course serving both majors and nonmajors, as well as participate in the graduate program. The appointee will be required to maintain an active research program in an area related to evolutionary biology. Candidates must have substantial backgrounds in plant science as well as records of research accomplishment.

The Department of Biological Sciences has a strong research program in cellular, molecular, and organismic biology and offers graduate degrees including a Ph.D. in the cellular biology of aging. Oakland is a state university of 12,000 students and is situated on a largely natural 1,500-acre campus located 25 miles north of Detroit.

Send curriculum vitae, statement of research and teaching interests, and the names of three referees before 15 January 1986 to:

Dr. Egbert W. Henry, Chairman
Search Committee
Department of Biological Sciences
Oakland University
Rochester, Michigan 48063

An Equal Opportunity/Affirmative Action Employer

POSITIONS OPEN

ASSISTANT PROFESSORSHIPS ALBERT EINSTEIN COLLEGE OF MEDICINE

Individuals with a record of excellence in postdoctoral research who can apply state of the art skills in biochemistry, molecular biology, and cell biology to solve problems relevant to molecular pharmacology are being sought. Candidates should be prepared to devise an innovative research program and to participate in teaching graduate and medical students. Research areas of particular interest include: hormone/growth action; regulation of gene expression by drugs/hormones/carcinogens; molecular basis of drug resistance; biochemistry and pharmacology of ion channels; molecular parasitology; calcium and protein phosphorylation in CNS; and reconstitution of membrane functions from purified components. Candidates should submit complete curriculum vitae, future research plans, and the names of four references who can comment critically on their research and teaching capabilities to: **Ms. Privitar, Administrator, Department of Molecular Pharmacology, Albert Einstein College of Medicine, 1300 Morris Park Avenue, Bronx, New York 10461.**

An Equal Opportunity Employer

ASSISTANT PROFESSOR OF BIOLOGICAL SCIENCES

The Department of Biological Sciences, Oakland University, invites applications for a tenure-track position starting 15 August 1986. Postdoctoral experience and a strong research record are required. Teaching responsibilities include undergraduate medical parasitology one semester and introductory biology the second semester. Candidates are expected to develop an active research program.

The Department of Biological Sciences has a strong research program in cellular, molecular, and organismic biology, and offers graduate degrees including a Ph.D. in the cellular biology of aging. The department consists of 20 faculty committed to excellence in research and teaching. Oakland University is a state university of 12,000 students and is situated on a largely natural 1,500-acre campus located 25 miles north of Detroit.

Applicants should submit curriculum vitae, a brief description of their research plans, and have three referees send letters of recommendation before 15 January 1986 to:

Dr. V. K. Moudgil, Chair
Search Committee
Department of Biological Sciences
Oakland University
Rochester, Michigan 48063

Oakland University is an Equal Opportunity/Affirmative Action Employer

TULANE UNIVERSITY SCHOOL OF MEDICINE—FULL-TIME ASSISTANT PROFESSOR OF MEDICINE in the Endocrine Section of the Department of Medicine. The individual selected must be internal medicine Board-certified or Board-eligible with endocrine/metabolic Board or eligibility. The position involves teaching, patient care, and research responsibilities. Apply to: **C. Y. Bowers, M.D., Tulane School of Medicine, 1430 Tulane Avenue, New Orleans, La. 70112.** Include updated curriculum vitae. Deadline is 6 December 1985. Tulane University is an Affirmative Action/Equal Opportunity Employer.

Ph.D. BIOCHEMIST OR PHYSIOLOGIST. Position available immediately in project involving investigation of amino acid metabolism and transport. Send curriculum vitae by 15 December 1985 to: **Joel D. Kopple, M.D., Department of Medicine, Harbor-UCLA Medical Center, 1000 West Carson Street, Torrance, Calif. 90509.** An Equal Opportunity Employer.

NEUROPHYSIOLOGIST

The Department of Biological Sciences invites applications for a tenure-track assistant professorship in neurophysiology to begin September 1986. Preference will be given to individuals working in neuroendocrinology of vertebrates or invertebrates; however, any area of neurophysiology will be considered. The successful candidate will be expected to establish a vigorous research program, to participate in the campuswide program in neurosciences, and to participate in teaching our ongoing course in mammalian physiology. Send curriculum vitae, research plans, and three letters of reference to: **Dr. S. K. Shapiro, Head, Department of Biological Sciences, University of Illinois at Chicago, Box 4348, Chicago, Ill. 60680.** Applications will be accepted until 16 December 1985, or until the position is filled. The University of Illinois at Chicago is an Equal Opportunity/Affirmative Action Employer.

Staff Fellow (Ph.D.)
Salary Range—\$17,000 to \$36,889
(Having less than 3 years professional research experience)

Staff Fellow (Ph.D.)
Salary Range—\$20,688 to \$41,358
(3-7 years Research Experience)

**NATIONAL INSTITUTES OF HEALTH
NATIONAL INSTITUTES OF ENVIRONMENTAL
HEALTH AND SCIENCES
LABORATORY OF PHARMACOLOGY**

The Molecular and Comparative Pharmacology Section in the Laboratory of Pharmacology is seeking an individual to participate in studies concerning the isozyme-selective suicide inhibition of cytochrome P-450 in mammalian lung. The biochemical and pharmacological mechanisms by which certain classes of xenobiotics preferentially inactivate pulmonary (vs. hepatic) cytochrome P-450 monooxygenation will be investigated. The successful candidate must have a record of demonstrated research productivity and the ability to carry out independent as well as collaborative research in the area of chemical/biochemical pharmacology. The initial appointment is for two years, with additional extensions up to five years possible for a talented researcher. Salary commensurate with candidate's qualifications and experience. Send curriculum vitae, bibliography and three recommendation letters to:

Norma Daye
NIEHS Personnel Office Code: HN-V242
P.O. Box 12233 (MD-1-01)
Research Triangle Park, NC 27709
(919 541-7810)

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**AAAS MASS MEDIA
SCIENCE AND
ENGINEERING
FELLOWS PROGRAM**

The American Association for the Advancement of Science (AAAS) invites outstanding students in the natural and social sciences and engineering, preferably those at the graduate level, to apply for the 1986 Mass Media Science and Engineering Fellows Program. Students majoring in English, journalism, or other nontechnical fields are not eligible for these fellowships.

Fellows will work as reporters, researchers, production assistants, and script consultants for 10 weeks during the summer at newspapers, news magazines, and radio and television stations across the country. Fellows will have the opportunity to participate in the news-making process, to increase their understanding of editorial decision-making, and to develop skill in conveying to the public a better understanding and appreciation of science and technology.

AAAS pays a \$300 weekly stipend and travel expenses. Deadline for receipt of applications is 1 February 1986. *Minorities and handicapped persons are especially encouraged to apply.*

For further information and applications, write:

**Mass Media Science and Engineering
Fellows Program
AAAS
1333 H Street, NW
Washington, D.C. 20005**

RESEARCH SCIENTISTS

NYGene Corp., a newly formed company engaged in leading edge biotechnology product development, has openings available for creative and experienced scientists with an interest in developing innovative instruments, methodologies and reagents for use in biology and medicine.

We are currently recruiting for the following:

IMMUNOCHEMIST—Ph.D., experienced in purification, analysis and manipulation of bioactive molecules including monoclonal antibodies.

SENIOR BIOCHEMISTRY TECHNOLOGIST—experienced in affinity and ion exchange chromatography, HPLC, gel electrophoresis, protein purification. Knowledge of monoclonal antibody conjugations, Elisa, RIA, immuno- fluorescence and peroxidase is desirable.

SENIOR TISSUE CULTURE TECHNOLOGIST—experienced in suspension, anchorage dependent, primary, secondary, and especially large scale mammalian cell culture, and cell cloning. Knowledge of Elisa, RIA, immuno- fluorescence and peroxidase is desirable.

CHEMICAL TECHNOLOGIST—B.S. with 1-2 years experience in organic synthesis with emphasis in coatings and suspension polymerizations. Ideal candidate will also have a background in the chemistry and isolation of proteins. Knowledge of TGA, HPLC, GC, carbon and nitrogen analysis is desirable.

Each is a core position offering substantial potential for personal, scientific, and corporate growth. Compensation will be commensurate with experience and ability.

The company is located in lower Westchester County approximately 30 minutes from midtown Manhattan, and 15 minutes from the George Washington, and Tappan Zee Bridges.

Qualified candidates should send their c.v. including a list of publications and salary requirements, in confidence to: **NYGene Corp., P.O. Box 429, Goldens Bridge, New York 10526.** We are an equal opportunity employer.

NYGene Corp.

IMMUNOPHARMACOLOGIST

A position is available for an immunologist to join the immunopharmacology group of the Merrell Dow Research Institute. A proven ability to initiate novel research is essential. The successful candidate will have a PhD plus 1 or more years of post doctoral research experience in the regulation of T-cell function. The position will explore the mechanisms underlining autoimmune disease and identify new therapeutic approaches.

Merrell Dow Research Institute is a subsidiary of Dow Chemical located in suburban Cincinnati. We offer excellent compensation, comprehensive benefits and relocation assistance. Please send your resume in confidence to:

Merrell Dow

Personnel Services Manager

**MERRELL DOW
RESEARCH INSTITUTE**

2110 East Galbraith Road
Cincinnati, OH 45215
Equal Opportunity Employer M/F/H/V

POSITIONS OPEN

ASSISTANT PROFESSOR. Applications are invited for a tenure-track position at the assistant professor level in the Department of Bacteriology, University of Wisconsin-Madison. Candidates with postdoctoral experience should have research interests and training in genetic, cellular or developmental biology of yeast, filamentous fungi, or other lower eukaryotes. The successful candidate will be expected to develop a dynamic research program in which she or he applies modern approaches to answer basic questions in one or more of the above areas. Teaching in the Bacteriology Department curriculum and supervision of graduate students will be required. Due to the excellent scientific environment and facilities of the Department of Bacteriology, this position represents an outstanding academic research opportunity. With appropriate research interests, the successful applicant will have the option of participating in NIH training grant programs in genetics and/or cellular and molecular biology. A detailed curriculum vitae, including research accomplishments and interests and a list of publications, as well as three letters of recommendation, should be sent directly to: Dr. Stephen L. Barclay, Search Committee, Department of Bacteriology, 1550 Linden Drive, University of Wisconsin-Madison, Ws. 53706, by 1 February 1986. *The University of Wisconsin is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR, BIOMATHEMATICS PROGRAM. Research in applications of mathematics and statistics to the biological sciences. Expertise in stochastic modeling preferred. Ph.D. in a mathematical science or a biological science if sufficient mathematical ability. Résumé, transcripts, and three letters of recommendation by 31 January 1986 to: Biomathematics Search Committee, Department of Statistics, Campus Box 8203, North Carolina State University, Raleigh, N.C. 27695-8203. *Affirmative Action/Equal Opportunity Employer.*

ASSISTANT PROFESSOR OF PHARMACOLOGY

The Department of Pharmacology of The Ohio State University, College of Medicine, invites applications for a tenure-track faculty position at the assistant professor level. Applicants should have at least 2 years of postdoctoral training and hold the Ph.D. and/or M.D. degree(s). They should have the potential for developing a strong, independent research program and be willing to participate in medical and graduate student teaching. Opportunities will exist for collaborative research also. The candidate should have proven research experience in cardiovascular research (vasoactive peptides, ionic fluxes, cellular electrophysiology) as applied to the understanding of drug and transmitter action at the cellular level.

Submit curriculum vitae, a statement of research interests, representative publications, and the names of three references to: Norton H. Neff, Ph.D., Professor and Chairman, Department of Pharmacology, The Ohio State University, College of Medicine, 333 West Tenth Avenue, Columbus, Ohio 43210-1239.

Closing date: 31 December 1985.

An Equal Opportunity/Affirmative Action Employer

Tulane University School of Medicine—Seeking **ASSOCIATE PROFESSOR OR PROFESSOR OF MEDICINE** in the Endocrine Section of the Department of Medicine to fill the newly established Tullis-Tulane Alumni Chair of Diabetes. The individual selected must be internal medicine Board-certified and endocrine/metabolic Board-certified/eligible. Academic experience preferred. The position involves teaching, patient care, and research responsibilities. Apply to: C. Y. Bowers, M.D., Tulane School of Medicine, 1430 Tulane Avenue, New Orleans, La. 70112. Include updated curriculum vitae. Deadline is 6 December 1985. *Tulane University is an Affirmative Action/Equal Opportunity Employer.*

BIOCHEMISTS

Tenure-track faculty positions at all ranks. Candidates should be interested in developing strong and independent research with long-term growth potential. Teaching includes medical, dental, and graduate students at a sizable medical complex. Biochemistry department with excellent new facilities is undergoing substantial expansion. Salary commensurate with experience and competitive. Curriculum vitae, brief statement of present and future research interests, and three letters of recommendation should be sent to: Dr. Robert D. Wells, Chairman, Department of Biochemistry, The University of Alabama at Birmingham, Schools of Medicine and Dentistry, University Station, Birmingham, Alabama 35294. *An Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

ASSISTANT PROFESSORS, DEPARTMENT OF PHARMACOLOGY, UNIVERSITY OF OTTAWA

Our Department of Pharmacology is expanding its staff and research facilities under a new chairman. Two tenure-track assistant professor positions will be available to candidates with Ph.D. and/or M.D. degrees who have postdoctoral experience and are strongly committed to research and teaching of medical pharmacology. For one of the positions, preference will be given to individuals with training in cardiovascular pharmacology. Knowledge of French is an asset.

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. Deadline for application is 31 January 1986. Starting date of appointment is negotiable.

Curriculum vitae, bibliography, a brief description of experience in teaching and research, a statement of career objectives, proposed research program, and three letters of recommendation should be sent to: Pharmacology Search Committee, Department of Pharmacology, School of Medicine, University of Ottawa, 451 Smyth Road, Ottawa, Ontario, Canada K1H 8M5.

ASSOCIATE/ASSISTANT PROFESSOR OF PHYSIOLOGY, probationary (tenure-track) position is available beginning 1 July 1986. The successful candidate should have a Ph.D. or M.D. or equivalent, would contribute to teaching programs in medicine, science, dentistry, and graduate studies, and will be expected to establish an independently funded research program in an area broadly related to existing interests of the department (cardiovascular, endocrine, gastrointestinal, autonomic, renal, integrative, and motor). Send (i) curriculum vitae, (ii) selected reprints, (iii) outline of research interests, and (iv) names and addresses of three references to: The Chairman, Department of Physiology, The University of Western Ontario, London, Ontario, Canada N6A 5C1.

In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents of Canada. An Equal Opportunity Employer. Position is subject to budget approval.

ASSISTANT PROFESSOR—PSYCHOBIOLOGY

The Department of Psychology at Florida Atlantic University (FAU) has a tenure-track position starting August 1986. We are seeking an individual with interests in the neurophysiological/neuroanatomical bases of behavior, particularly in the areas of plasticity in sensory systems, sensorimotor integration, or neural mechanisms of movement. Ph.D. in psychobiology and record of research accomplishment required. Send curriculum vitae, copies of recent publications, and three letters of reference to: Dr. David L. Wolgin, Department of Psychology, Florida Atlantic University, Boca Raton, Fla. 33431. Deadline is 15 February 1986. *FAU is an Equal Opportunity/Affirmative Action Employer.*

BIOLOGY. Ecologist with continuing research interest encompassing marine fishes. Ph.D., tenure-track, assistant professor, start September 1986. Contribute periodically to interdisciplinary, values oriented, general education program and may, as qualified, fill periodic needs arising from leaves in biology. Send curriculum vitae, transcripts, and three recommendation letters by 1 February 1986 to: Dr. John Ferguson, Eckerd College, St. Petersburg, Florida 33733. *Equal Opportunity Employer.*

CHAIRMAN, DEPARTMENT OF PHYSIOLOGY AND BIOPHYSICS LOUISIANA STATE UNIVERSITY MEDICAL CENTER, SHREVEPORT

The School of Medicine invites nominations and applications for the chairmanship of an expanding Department of Physiology and Biophysics. Candidates must have an outstanding record of research, strong commitment to medical and graduate education, and the vision and experience to establish and lead a department of excellence. All résumés will be reviewed by: Dr. Dennis J. O'Callaghan, Chairman, Physiology Search Committee. Applicants must provide curriculum vitae, names of three references, and statement of research interests to:

Martha Lennard
Department of Human Resources
Louisiana State University Medical Center
1501 Kings Highway
Shreveport, La. 71130

Affirmative Action/Equal Opportunity Employer

POSITIONS OPEN

BIOLOGY FACULTY POSITIONS (TWO) MOLECULAR NEUROBIOLOGY MOLECULAR BIOLOGY OF DIFFERENTIATION

The Department of Biological Sciences at the State University of New York at Albany (SUNYA) has two tenure-track positions to fill in September 1986 with a third position available in the near future. The positions are intended to complement our research groups in molecular, cellular, and neurobiology, and to strengthen our emphasis on the control of developmental processes. The successful candidates must have postdoctoral experience and will be expected to establish an extramurally supported research program. **MOLECULAR NEUROBIOLOGY:** Candidates using molecular/genetic techniques to examine neuronal interactions are sought. The successful candidate will be chosen to complement a strong group of developmental neurobiologists. **MOLECULAR BIOLOGY OF DIFFERENTIATION:** Candidates using molecular techniques to study the control of developmental processes in higher eukaryotic animals are sought. The successful candidate will complement a strong group of cell biologists studying the cell surface and differentiation.

Candidates should send a brief letter describing their research interests, curriculum vitae, and names, addresses, and telephone numbers of three referees before 26 January 1986 to: Dr. Rod K. Murphey, Chair of the Search Committee, Department of Biological Sciences, State University of New York at Albany, 1400 Washington Avenue, Albany New York 12222.

SUNYA is an Affirmative Action/Equal Opportunity Employer. Applications from minority persons, women, handicapped persons, and Vietnam-era veterans are especially welcomed.

BIOLOGIST—to teach general biology and two of the following: invertebrate zoology, vertebrate zoology or symbiosis. One-year sabbatical replacement, beginning fall semester, 1986. Ph.D., entry level position. Transcripts, résumé, and three letters of reference must be received prior to 3 February 1986 by: Professor Richard Lane, Biology Department, Dickinson College, Carlisle, Pa. 17013. *An Affirmative Action/Equal Opportunity Employer.*

BIOLOGY: Elon College. Assistant professor of biology, zoology, permanent position to begin in September 1986. Teaching responsibilities include: general biology, zoology, embryology, and comparative anatomy. Ph.D. with commitment to and experience in teaching required. Send résumé and three letters of recommendation to: Dr. H. W. House, Box 2270, Elon College, Elon College, N.C. 27244, on or before 20 January 1986.

A position for a **CELL BIOLOGIST POSTDOCTORAL RESEARCH ASSOCIATE** or a **SENIOR TECHNOLOGIST** is available at State of New York (SUNY)—Upstate Medical Center, Syracuse, New York, in the Division of Pediatric Hematology. Must have a minimum of 2 years of experience in cell culture techniques and in vivo and in vitro angiogenic assays, or be a cell biologist postdoctoral candidate. Salary commensurate with experience (negotiable to \$22,000). Curriculum vitae with names of three references should be sent to: Dr. Marie Stuart, Professor of Pediatrics, Upstate Medical Center, 750 East Adams Street, Syracuse, New York 13210. Deadline for receipt of résumés: 6 December 1985. *Affirmative Action/Equal Opportunity Employer.*

TENURE-TRACK OPENING at the junior level in an ACS-approved department at an undergraduate university of 1600 students. Ph.D. in biochemistry or organic chemistry required. The successful candidate will be expected to teach biochemistry, share in the teaching of organic chemistry, and assist the rest of the department in teaching laboratory sections and nonmajors courses. Send application, including undergraduate and graduate transcripts, and have three letters of recommendation sent to: Dr. David N. Bailey, Head, Department of Chemistry, Illinois Wesleyan University, Bloomington, Ill. 61702. *IWU is an Equal Opportunity Employer.*

CYTOGENETICS TECHNICIANS: Positions available immediately for persons experienced in karyotyping human chromosomes. A minimum 6 months' clinical cytogenetics laboratory experience necessary. Beginning salary \$20,000 to 24,000, depending on experience. Résumé and references required. Contact: Dr. Carl Goodpasture, Assistant Director, Vivigen, Inc., 550 St. Michaels Drive, Santa Fe, New Mexico 87501. Telephone: 505-988-9744.

FACULTY POSITIONS

Division Of Applied Biological Sciences

MIT is seeking applicants for tenure-track faculty positions in Applied Biological Sciences. Candidates should have doctoral training in basic biological and chemical sciences together with postdoctoral experience that provides evidence of potential for independent research. Research interests should involve applications of biological or chemical sciences at molecular or cellular levels to biotechnology or pharmacology. Examples of areas of interest are bioorganic chemistry, studies of cell receptors, and novel approaches to drug development. Appointees will be expected to contribute to the development of undergraduate and graduate educational programs.

Applicants should send curriculum vitae, brief description of research interests and names of references to: Gerald N. Wogan, Head, Department of Applied Biological Sciences, Massachusetts Institute of Technology, Room 16-333, Cambridge, MA 02139.

MIT is an equal opportunity/affirmative action employer.

MIT



The European Molecular Biology Laboratory, an international research organization situated in Heidelberg, West Germany, invites applicants for a position as

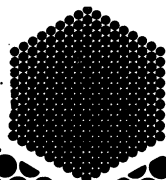
SCIENTIST

The successful candidate will join a theoretical protein folding group involved in the development of techniques and tools to model build protein tertiary structures. Possible areas of research include energy minimization of mutagenized known tertiary structures; active site and drug design, prediction of tertiary folding for a protein with sequence homologous to that of a known structure; analysis of presently known tertiary structures for purposes of structural prediction and elucidation of folding principles.

Candidate should have a doctorate or equivalent degree and experience in an area pertinent to theoretical protein folding (e.g. molecular biology, biophysics, physical chemistry) as well as familiarity with computing techniques and the English language. Post-doctoral experience is helpful.

An above-average salary will be offered to the successful applicant. Certain allowances are payable in addition, depending on personal circumstances. An initial contract of 3 years' duration, which can be renewed, will be offered.

Please write briefly for an application form, quoting reference 85/41 to: EMBL
Personnel Section,
Postfach 10.2209,
D-6900 Heidelberg.



EMBL



EXECUTIVE OFFICER

American Association for the Advancement of Science (AAAS), Washington, D.C.

AAAS is conducting a search for the successor to the present Executive Officer who is retiring. The duties of the position are those of chief operating officer and publisher. The incumbent is selected by, and reports to, an elected board of directors.

AAAS publishes the weekly international journal, *Science*, the monthly magazine of science, *Science 86*, and a journal of reviews, *Science Books and Films*. The Association is nonprofit and was founded in 1848. It has an individual international membership of 135,000 and is affiliated with nearly 300 scientific, engineering, and learned societies. A staff of some 270 people, headquartered in Washington, D.C., handles the Association's publishing activities, as well as the planning and support of annual meetings and symposia, a range of special programs in science, education, international cooperation, science and public policy, opportunities in science, and science communication. Four geographic divisions, comprised of volunteers, carry out the objectives of the AAAS at the regional level.

The Board of Directors is seeking a person of substantial experience and accomplishment. Appropriate background may be in scientific or engineering research, education, academic administration, scientific or technical society management and/or publishing, or public administration of research and development policy. Initiative, management skill, and knowledge of the interactions of science with public policy are salient requirements. Successful candidate must have 15 years of relevant experience in one or more of the above areas including 10 years of experience in planning, budgeting, and management. Demonstrable interest in the goals of the AAAS is essential. Salary is negotiable.

Letters of application, accompanied by curriculum vitae, should be addressed to: **David A. Hamburg, M.D., Chairman, Board of Directors, AAAS, 38th Floor, 437 Madison Avenue, New York, N.Y. 10022.** The closing date for receipt of applications is 31 December 1985.

AAAS, one of the largest general science organizations in the world, is an Equal Opportunity Employer.

We're Making A Difference!

Allergan provides its R&D professionals the rewarding opportunity to make a positive difference in advancing eye care throughout the world.

Discovery Research has a position available for a researcher with experience in protein biochemistry. The position is at the Scientist level and requires a Ph.D. or equivalent and a minimum of two years of post-doctoral experience.

The responsibilities of this position include the planning and conducting of research on a multi-disciplinary team investigating therapeutic approaches to the treatment of cataracts. Emphasis will be on defining lenticular protein changes accompanying cataract formation. Previous experience in lens protein biochemistry is desirable but not required.

Beyond making a difference in sight, Allergan brings new dimensions to career satisfaction through a creative scientific environment, a competitive salary and benefits package, and on-site recreational resources. Make a difference in your future today by sending your resume to: **Allergan Pharmaceuticals, A SmithKline Beckman Co., Dept. BO, 2525 Dupont Drive, Irvine, CA 92715.** Equal Opportunity Employer M/F/H.



Scientist PhD

Immunodiagnosics Research and Development

Becton Dickinson's Corporate Research Center, at Research Triangle Park, North Carolina, has an immediate opportunity for an experienced enzymologist/protein chemist. We are seeking a dedicated and talented scientific professional to participate in the development of novel, non-isotopic immunoassays.

The successful candidate will have a PhD in enzymology/protein chemistry and 1 year postdoctoral experience in enzyme analysis and purification. An understanding of immunoassays would be an advantage. Excellent written and oral communication skills and the ability to function as part of a diversified scientific team are required.

Becton Dickinson offers an excellent salary, a comprehensive benefits program which includes relocation assistance, and the opportunity to contribute to the dynamic health care field. Qualified candidates are asked to send curriculum vitae, in strict confidence, to: Mr. F. Richard Wilson, Human Resources Department, Becton Dickinson Research Center, P.O. Box 12016, Research Triangle Park, North Carolina 27709. An equal opportunity/affirmative action employer.

Caring for people is our business

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DICKINSON**

POSITIONS OPEN

CANCER MOLECULAR BIOLOGY

Applications are invited for several tenure-track faculty positions at the assistant or associate professor level in the Cancer Center of Northwestern University School of Medicine with academic appointments in the Departments of Molecular Biology and/or Microbiology-Immunology. Applicants should have a Ph.D. or an M.D. degree and several years of postdoctoral training. Candidates having research interest and experience in retroviruses, oncogenes, cellular regulatory mechanisms, growth factors, or the molecular biology of differentiation and development are especially encouraged to apply. The successful applicants will be expected to develop vigorous independent research programs in the Cancer Center and to participate in the teaching of graduate and/or medical courses and in the training of graduate and postdoctoral students in the rapidly expanding academic departments. Applicants should send complete curriculum vitae, a brief description of previous research and teaching interests (three to four pages), a bibliography, and recommendations from at least three references by 30 December 1985 to: **Dr. David Shemin, Deputy Director, Cancer Center, Northwestern University School of Medicine, 303 East Chicago Avenue, Chicago, Illinois 60611; telephone: 312-908-5254.**

Northwestern University is an Equal Opportunity/Affirmative Action Employer and invites applications from all qualified individuals.

DEPARTMENT CHAIR, CHEMISTRY DEPARTMENT, NEW YORK UNIVERSITY (NYU). Nominations and applications are invited for the position of department chair, beginning 1 September 1986. An individual with a record of proven leadership and outstanding achievement in research in any area of chemistry is sought to give strong direction to a 5-year development plan for the chemical sciences at NYU. A résumé, description of research interests, and the names of at least three references should be sent prior to 17 January 1986 to: **NYU, Faculty of Arts and Sciences, Department of Chemistry, 4 Washington Place, 5th Floor, New York, N.Y. 10003. Attention: Professor Nicholas Geacintov, Chair of the Search Committee.** NYU is an Affirmative Action/Equal Opportunity Employer.

MICHIGAN—CHAIRPERSON, ORAL BIOLOGY. Responsibilities include administration, undergraduate and graduate teaching, directing an active research program, integration of the basic sciences with the clinical disciplines, and facilitation of a newly established Ph.D. program in oral biology. Requirements are a dental degree and/or a Ph.D. degree in the biological sciences, minimum of 5 years of teaching and research experience with demonstrated leadership in the field, and an established record of publications in the biomedical sciences as it relates to oral health. Academic rank and salary commensurate with education and experience. *A nondiscriminatory Affirmative Action Employer.* Send curriculum vitae and list of three persons from whom references may be obtained to: **The Oral Biology Search Committee, Office of the Dean, School of Dentistry, The University of Michigan, Ann Arbor, Michigan 48109-1078.** Application deadline date is 15 January 1986.

DIRECTOR, CARIBBEAN PRIMATE RESEARCH CENTER

The University of Puerto Rico Medical Sciences Campus is seeking a scientist with primate research and management experience who desires the challenging and unique opportunity of directing the Caribbean Primate Research Center (CPRC). Responsibilities include obtaining grant support for the CPRC, as well as for independent research, developing and sustaining collaborative research and contracts, supervising staff scientists, and managing the resources of the CPRC. These include the free ranging population of rhesus macaques on Cayo Santiago, the Sabana Seca Field Station, housing six species of Old and New World monkeys, and the CPRC skeletal collection. Modern laboratory facilities and an academic appointment in an established department of the School of Medicine are negotiable. Salary commensurate with training and experience. Please send curriculum vitae and three references to:

**Dr. Nydia De Jesús
Department of Anesthesiology
University of Puerto Rico
Medical Sciences Campus
G.P.O. Box 5067
San Juan, Puerto Rico 00936**

The University of Puerto Rico is an Equal Opportunity Employer.

VICE PRESIDENT FOR RESEARCH AND DEAN OF GRADUATE STUDIES

The State University of New York at Albany, the senior campus of the SUNY system and one of four university centers in the system, invites applications and nominations for the position of Vice President for Research and Dean of Graduate Studies. The University, located in the state capital, enrolls approximately 16,000 students, thirty percent of whom are graduate students. The full time faculty numbers 670. There are 11 degree granting schools and colleges offering doctoral degrees in 27 fields and bachelor's and master's degrees in about 50 areas of study.

The Vice President for Research and Dean of Graduate Studies reports directly to the President and is a member of the President's Cabinet. The incumbent in this dual position will be responsible for maintaining and enhancing the University's record of accomplishment in research; for strengthening and diversifying support for research; for assuring the continuing excellence of graduate education; for maintaining graduate enrollment levels.

The candidate must possess an earned doctorate; an outstanding record of scholarship, research, and teaching; senior level administrative experience; demonstrated ability to function effectively in a complex institutional setting; the ability to work cooperatively and creatively in program management and in policy development and coordination.

Salary and benefits are competitive and commensurate with experience and qualifications. Nominations and applications, along with resumes and names of five references, will be considered in confidence and should be sent no later than December 1, 1985 to:

**Dr. Warren P. Iichman, Chairperson
Search Committee, SUNY at Albany
680 Fifth Avenue—10th floor
New York, New York 10019**

An affirmative action/equal opportunity employer

MOLECULAR BIOLOGISTS BS—MS

Merck Sharp & Dohme Research Laboratories is currently seeking two independent research scientists to join our Department of Virus & Cell Biology. The selected candidates will be involved in the molecular biology of a variety of mammalian cellular enzymes, growth factors and receptors. Each position will include overall responsibility for a wide range of cloning efforts within their respective groups.

Qualifications include a BS or MS in Biological Science or the equivalent with 2-3 years experience in molecular biology and recombinant DNA technology. Familiarity with construction and screening of cDNA libraries, analysis of clones, DNA sequencing and experience with mammalian and microbial cell expression of recombinant proteins is highly desirable.

Our laboratories are world renowned; our research facilities are excellent. Our team approach to molecular biology research is both exciting and rewarding. We are situated in a suburban setting northwest of Philadelphia. Salary and benefits programs for these positions are excellent.

Please send resume with salary requirements to: Jacques P. Kueny

Merck Sharp & Dohme Research Laboratories

West Point, PA 19486

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MERCK & CO., INC.

SEEKING MINORITY POSTDOCTORAL CANDIDATES

Exxon's Corporate Research Laboratories have established a limited number of appointments to provide opportunities for outstanding postdoctoral candidates to contribute in their area of expertise while experiencing the nature of industrial research. These appointments may be in any field of science or engineering of mutual interest.

In an effort to assure diversity among the scientists and engineers, we are seeking additional Black and other under represented minority candidates for this program. These appointments are for one year, renewable for a second, provide a salary of \$35,200 per year with transportation and moving expenses to the Clinton Township, New Jersey area.

If interested, please send curriculum vita, recommendations from three references, statement of proposed research area of interest, and dates of availability to: Dr. Andrew Callegari, Exxon Research and Engineering Company, Corporate Research, Clinton Township, Route 22 East, Annandale, New Jersey 08801. Equal opportunity employer.

EXXON

EXXON RESEARCH AND
ENGINEERING COMPANY
CORPORATE RESEARCH



POSITIONS OPEN

CLINICAL NEUROPHYSIOLOGIST: Columbia University seeks a full-time BE or BC neurologist to establish and direct a clinical motor physiology laboratory. Documented expertise in EMG and movement disorders is required. Capability for independent research funding is desirable. Please reply to: **Dr. Timothy A. Pedley, The Neurological Institute, 710 West 168 Street, New York, N.Y. 10032.** *Columbia University takes Affirmative Action to ensure Equal Opportunity.*

CLINICAL PHARMACOKINETICIST/PHARMACOLOGIST

The Clinical Pharmacokinetics/Pharmacology Laboratory of the Joint Section of Hematology/Oncology at Michael Reese Hospital and Medical Center is offering an outstanding opportunity to a qualified person for the position of assistant laboratory director.

The successful candidate will be responsible for the development of new HPLC assays for anticancer drugs and metabolites. Work entails quantitation of the drugs in biological fluids, pharmacostatistical analysis of the results, and therapeutic drug monitoring consult service.

Position requirements include Pharm.D. or Ph.D. with 2 years of postdoctoral training in the clinical pharmacokinetics and basic pharmacology of drugs used to treat cancer. Experience such as qualitative analysis of drugs, pharmacokinetics, mathematical modeling, and statistics is essential. Salary is competitive and commensurate with training and experience. Applicants should send a résumé, along with three reference letters to: **Illinois Job Service, 910 South Michigan Avenue, Room 333, Chicago, Illinois 60605.** Attention: Reference Number 041061-H. *Michael Reese Hospital and Medical Center is an Equal Opportunity Employer.*

Carnegie-Mellon University has reopened its search for a DEAN of its College of Humanities and Social Sciences. We are seeking a proven scholar, with personal breadth, and with entrepreneurial and administrative flair.

Nominations, including a cover letter, curriculum vitae, and list of references, should be addressed to: **Dr. Sara Kiesler, Chair, Dean Search Committee, Department of Social Sciences, Carnegie-Mellon University, Pittsburgh, Pa. 15213.** *An Affirmative Action/Equal Opportunity Employer.*

DEAN SCHOOL OF PUBLIC HEALTH UCLA

Applications and nominations are invited for the position of dean of the School of Public Health at University of California, Los Angeles (UCLA), effective 1 July 1986. The dean has responsibility for the academic and administrative operation of the school, which currently has 68 faculty positions and 580 graduate students. The school grants M.S., M.P.H., Dr.P.H. and Ph.D. degrees, and administers an interdepartmental doctoral program in environmental science and engineering.

Acting under authority delegated by the chancellor, the dean participates in campus-wide planning and is responsible for supervision of the school's budget, allocation of resources, review of faculty, development and administration of academic and research programs, and direction of the school's professional relations. Candidates should have qualifications appropriate to the rank of full professor. Salary will be commensurate with background and experience.

To be ensured of full consideration, nominations and letters of application, with curriculum vitae, should be sent by 15 January 1986 to: **Public Health Dean Search Committee, c/o Mrs. Rene Dennis, Office of the Chancellor, University of California, Los Angeles, California 90024.** *UCLA is an Equal Opportunity/Affirmative Action Employer, and specifically encourages applications from women and minorities.*

GENETICIST. Tenure-track position at assistant professor level. Teaching responsibilities include genetics, alternate year courses in microbiology and a second area of specialty such as immunology or development, and participation in the introductory biology courses. A research program involving undergraduates is encouraged. The Ph.D. is required and previous teaching experience is preferred. Available 1 July 1986. Please submit curriculum vitae and three letters of recommendation by 15 January 1986 to: **Dr. Joanne Rosinski, Chair, Biology Department, Sweet Briar College, Sweet Briar, Virginia 24595.** *Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

ENVIRONMENTAL CHEMIST Assistant Professor

HAMPSHIRE COLLEGE is seeking an inorganic chemist for a long-term position beginning fall 1986. The School of Natural Science is looking for an excellent teacher of chemistry who will involve students in projects concerning environmental issues such as acid rain, solid waste disposal, environmental impacts of agricultural technologies, or ground water pollution. Hampshire has an active Third World Studies Program, and preference will be given to candidates who have a strong background in environmental issues that affect Third World people abroad and in the U.S. The faculty member will be expected to develop science courses and seminars and to supervise and evaluate a variety of student research projects; it would be helpful if this person could also introduce students to uses of computers in data analysis or modeling. Candidates should send letters and résumés to: **Merle Bruno, School of Natural Science, Hampshire College, Amherst, Mass. 01002.** *Hampshire College is an Equal Opportunity Employer and has embarked upon a vigorous Affirmative Action Program. Women and minority candidates are encouraged to apply.*

ENVIRONMENTAL SCIENTIST/ANALYTICAL CHEMIST-SPECTROSCOPIST. An individual with a strong background in the environmental sciences and preferably in analytical chemistry and spectroscopy is being sought by the Ames Laboratory, a national laboratory of the U.S. Department of Energy (USDOE) located on the campus of Iowa State University. The position involves responsibilities as program director of the Laboratory's Environmental Sciences Program, along with active conduct of a research program. Opportunities for affiliation with the university's chemistry or related departments exists, subject to approval by the faculty involved. Applicants should submit curriculum vitae, a list of publications, comments on other accomplishments and interests germane to the position, and names (with addresses and telephone numbers, preferably) of scientists familiar with their work to: **Jerry Jenison, Personnel Officer, Ames Laboratory USDOE, Iowa State University, Ames, Iowa 50011.** Evaluation of applicants will begin in December 1985. *Iowa State University and the Ames Laboratory are Affirmative Action/Equal Opportunity Employers, M/F/V/H.*

EPIDEMIOLOGIST ANTICIPATED AVAILABLE 1 JANUARY 1986

The University of Arizona seeks individual experienced in epidemiology for epidemiological/statistical activities associated with cancer epidemiology and prevention studies for state of Arizona. Position includes an academic appointment in the College of Medicine at a faculty rank. Funding for position is anticipated from expanded long-term support. Doctorate degree in epidemiology or biostatistics with computing background preferred, ability to develop complementary research studies and work with other researchers important. Send curriculum vitae, salary background, and references to: **Thomas E. Moon, Ph.D., Head, Biometry and Epidemiology Program, Arizona Cancer Center, 1501 North Campbell Avenue, Tucson, Ariz. 85724.** *The University of Arizona is an Equal Opportunity Employer.*

FACULTY POSITION for D.V.M., Ph.D. in environmental toxicology is available in the College of Veterinary Medicine, Kansas State University. Closing date: 1 December 1985 or until filled. Contact: **F. W. Oehme, D.V.M., Ph.D., Comparative Toxicology Laboratories, Kansas State University, Manhattan, Kans. 66506; telephone: 913-532-5679.** *Kansas State University is an Equal Opportunity/Affirmative Action Employer.*

UNIVERSITY OF MARYLAND COLLEGE PARK Faculty Position in Biochemistry

The Department of Chemistry and Biochemistry invites applications from outstanding individuals for a tenure-track position in biochemistry, at the level of assistant professor. Applicants research interests should be in the areas of nucleic acid structure and function or the use of nucleic acids structure to study protein structure and function. Send curriculum vitae and statement of research plans and arrange for the submission of three letters of recommendation by 15 December 1985 to: **Professor John W. Kozarich, Department of Chemistry and Biochemistry, University of Maryland, College Park, Md. 20742.** *The University of Maryland is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

CELL-SORTER OPERATOR—To maintain and operate a sophisticated, dual laser, EPICS V fluorescence-activated cell sorter and analyzer, as well as associated microcomputers, floppy and hard disks and data display terminals. Will interact with research scientists in analyzing samples and instructing participating data analysis. Requires knowledge of computer data management, preparation of reagents, and ability to discriminate among analytic methods to provide reproducible and accurate data. Requires B.A. or B.S. in appropriate scientific discipline, and prior experience with sophisticated electronic instrumentation and fluorescence cell sorters is desired. Please send résumés with names of two references to: **Dr. Ellis Reinherz, Dana-Farber Cancer Institute, 44 Binney Street, Boston, Mass. 02115.** *An Affirmative Action/Equal Opportunity Employer.*

EXPERIMENTAL DEVELOPMENTAL BOTANIST

The Biology Department has reopened its search to fill a tenure-track **ASSISTANT PROFESSOR** position to begin September 1986. We are seeking candidates with strong backgrounds in morphology, anatomy, and physiology of the vascular plants and with research interests in the experimental aspects of developmental botany (cellular, molecular, or physiological). Teaching responsibilities include team-taught introductory botany for majors and nonmajors, anatomy/morphology of the vascular plants, and alternate year offerings of developmental botany and a course to be agreed upon. We are interested in applicants with an understanding of the directions in which developmental botany is moving and an interest in progressing with the field.

The primary aim of Carleton College is teaching excellence. Active scholarship by the faculty is considered to be an essential element in meeting this aim. The candidate is expected to maintain an active research program with the potential for viable participation by undergraduates and for external funding. Postdoctoral experience is desirable but not required. *Women and minority candidates are particularly encouraged to apply.* Carleton is a liberal arts college located 40 miles south of Minneapolis/St. Paul, Minnesota, with an enrollment of 1700 highly selected students and 150 faculty. The Biology Department has 8.3 FTE faculty and from 70 to 100 majors.

Applicants should send curriculum vitae, undergraduate and graduate transcripts, and three letters of reference to: **G. J. C. Hill, Chairman, Biology Department, Carleton College, Northfield, Minn. 55057.** Telephone: 507-663-4392. Closing date for completed applications: 3 January 1986. *Carleton College is an Affirmative Action/Equal Opportunity Employer.*

FIELD ECOLOGIST

The Biology Department is seeking to fill a tenure-track **ASSISTANT PROFESSOR** position to begin September 1986. We are seeking candidates with substantial training in field ecology, population genetics, and strong backgrounds in both plant and animal ecology. Research interests in aspects of field ecology are required. Teaching responsibilities include a course in field biology for majors and nonmajors, a course in general evolution, and a course in ecology. We are interested in applicants with an appreciation of the role of field studies and natural history in an undergraduate biology curriculum.

The primary aim of Carleton College is teaching excellence. Active scholarship by the faculty is considered to be an essential element in meeting this aim. The candidate is expected to maintain an active research program with the potential for viable participation by undergraduates and for external funding. Postdoctoral experience is desirable but not required. *Women and minority candidates are particularly encouraged to apply.* Carleton is a liberal arts college located 40 miles south of Minneapolis/St. Paul, Minnesota, with an enrollment of 1700 highly selected students and 150 faculty. The College maintains a 400-acre arboretum adjacent to the campus and a 40-acre native prairie within 7 miles of campus. A river runs adjacent to campus (tributary of the Mississippi), and there are several lakes in the immediate vicinity. The Biology Department has 8.3 FTE faculty and from 70 to 100 majors.

Applicants should send curriculum vitae, undergraduate and graduate transcripts, and three letters of reference to: **G. J. C. Hill, Chairman, Biology Department, Carleton College, Northfield, Minn. 55057.** Telephone: 507-663-4392. Closing date for completed applications: 3 January 1986. *Carleton College is an Affirmative Action/Equal Opportunity Employer.*

NIH STAFF FELLOWSHIP FOR MOLECULAR BIOCHEMIST

The National Institutes of Health (NIH), National Institute of Neurological and Communicative Disorders and Stroke (NINCDS), invites applications for a Staff Fellowship position in the Laboratory of Neurophysiology, Section on Receptor Biochemistry (Dr. J. Craig Venter, Section Chief). This Section is examining the structure and function relationships of neurotransmitter receptor proteins including adrenergic, cholinergic, and GABAergic. We seek a highly motivated, skilled individual with a strong molecular biology/bio-chemistry background to perform advanced research on neurotransmitter receptor gene structure, expression and regulation.

Candidates must (1) have less than seven years of professional research experience; (2) be U.S. Citizens or resident aliens who

would be eligible for citizenship within four years; and (3) either have been awarded their doctoral degrees in a science related to this position, or have been certified by a university as meeting all requirements leading to such a doctorate. The salary will range from \$17,000 to \$47,788 per year commensurate with education and experience.

Please send curriculum vitae and three (3) letters of reference to

Mr. Clifford Schein
NINCDS Personnel Office (NIH)
Building 31, Room 8A25
9000 Rockville Pike
Bethesda, Maryland, 20892.

For more information call Mr. Schein on (301) 496-6334.

NIH IS AN EQUAL OPPORTUNITY EMPLOYER

Post-Doctoral Positions Research and Development

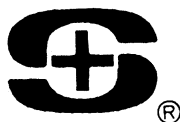
Salsbury Laboratories, Inc., a leader in the veterinary health field is seeking several motivated individuals to join the expanding biotechnology effort. These openings are initially offered as 1-2 year post-doctoral positions, and afford the potential for permanent placement. Successful candidates will participate in the vaccine development program utilizing current technological approaches toward the identification and application of virulence determinants in affording protection against microbial agents.

Protein Biochemist (2): Associate or Assistant Technical Scientists. Recent Ph.D. in chemical engineering, biochemistry or related discipline with training in protein separations technology. Background of each candidate should include identification and characterization of membrane antigens, and purification of the same for immunogenicity evaluation studies. Experience with large scale (Kg. scale) protein separations technologies would be desirable.

Immunologist (1): Assistant Technical Research. Recent Ph.D. in immunology or related discipline with emphasis in the mucosal immune system. Individual's background should emphasize understanding of mechanisms associated with the local immune response. This individual will employ novel targeting technologies in delivering antigens at the local level.

Microbiologist (1): Assistant Technical Scientist. Recent Ph.D. in Microbiology, Parasitology or related discipline. Candidates should have working experience with animal disease models emphasizing research in host-immune response mechanisms. Experience with the application of monoclonal antibodies toward identification of virulence determinants essential. Working knowledge of parasite infection systems would be desirable.

You will enjoy an excellent compensation package including comprehensive benefits. For prompt, confidential consideration, send your **curriculum vitae** to:



Mr. William B. Cook • Director of Human Resources

Salsbury Laboratories, Inc.

2000 Rockford Road • Charles City, IA 50616

An Equal Opportunity Employer

POSITIONS OPEN

TENURE-TRACK FACULTY POSITION IN MOLECULAR BIOLOGY UNIVERSITY OF ROCHESTER

The Department of Pharmacology and the Cancer Center at the University of Rochester invite applications for a tenure-track faculty position; applications for all professorial ranks will be considered. The successful applicant may hold a primary appointment in the Department of Pharmacology or joint primary appointments in the Department of Pharmacology and in the Cancer Center. Applicants should have a Ph.D. degree in pharmacology or a related field, an M.D. degree, or both, postdoctoral research training, the potential to attract research support to an independent research program, and an interest in professional and graduate education. Applications are welcome from individuals who apply the techniques of cell and molecular biology to any area of pharmacology. The deadline for applications is 31 December 1985. Applicants should forward curriculum vitae, a list of publications, three letters of recommendation, and a summary of current and future research interests to: **Pharmacology Search Committee, Department of Pharmacology, Box Pharmacology, School of Medicine and Dentistry, 601 Elmwood Avenue, Rochester, N.Y. 14642. Equal Opportunity Employer, M/F.**

FACULTY POSITION—PHARMACOLOGY. Jefferson Medical College has two assistant professor positions available, one to be filled by an immunologist, and the other to be filled by a neuromuscular physiologist/pharmacologist. For both individuals, there is the opportunity for a joint appointment in a basic science department. The successful candidates will join a multidisciplinary research program (medicine, pharmacology, physiology, microbiology, and biochemistry) that is focused on nerve toxins of biological origin. The new faculty members will be expected to interact with this research group but there will be time to develop independent interests. Financial support is available for both salary and equipment. Interested persons should submit a brief statement of their research interests, curriculum vitae with a list of publications, and the names of three persons who can provide letters of reference. These materials should be forwarded to: **Dr. Lance L. Simpson, Professor of Medicine and Pharmacology, Jefferson Medical College, 1025 Walnut Street, Philadelphia, Pa. 19107. Equal Opportunity Employer.**

EAST TENNESSEE STATE UNIVERSITY (ETSU) QUILLEN-DISHNER COLLEGE OF MEDICINE DEPARTMENT OF PHARMACOLOGY

TENURED TRACK FACULTY POSITION—Applications are invited for the position of **assistant professor** in the Department of Pharmacology. Candidates (Ph.D. or M.D.) should have a good postdoctoral training with enough evidence to indicate what prospects they have in research and teaching. The position will involve teaching medical, nursing and graduate students. Particular emphasis will be primarily placed upon applicants with good productive prospectus. Applicants should submit curriculum vitae, three letters of reference and a statement of research interests to: **Dr. Ernest A. Daigneault, Chairman, Department of Pharmacology, ETSU, Johnson City, Tennessee, 37614-0002. ETSU is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply. A closing date of 15 December 1985 for applications will be utilized.**

FACULTY POSITION. The Department of Pharmacology, University of South Alabama, College of Medicine, invites applications for a tenure-track position at the level of assistant or associate professor. Applicants should have a Ph.D. or equivalent degree and two or more years of postdoctoral experience, as well as a commitment to the development of an excellent research program and an interest in teaching medical and graduate students. Applications are encouraged from individuals interested in the regulation of biological processes at the molecular and/or cellular level as broadly related to pharmacology. Interested individuals should send an outline of future research plans, curriculum vitae, including a bibliography, and the names of three references to: **Dr. Samuel J. Strada, Faculty Search Committee, Department of Pharmacology, University of South Alabama, College of Medicine, 3130 Medical Sciences Building, Mobile, Alabama 36688. The deadline for the receipt of applications is 31 January 1986. The University of South Alabama is an Equal Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

The Department of Biomedical Engineering, Duke University, is inviting applications for a **FACULTY POSITION** which will be available in September, 1986. Academic rank is open. A Ph.D. or equivalent academic degree is required. Applicants should be interested in teaching at both the undergraduate and graduate levels. A major criterion for appointment will be the applicant's potential for developing an excellent research program in some area of biomedical engineering. Applicants should send a résumé and names of three references to: **James H. McElhaney, Chairman, Department of Biomedical Engineering, Duke University, Durham, North Carolina 27706. Duke University is an Equal Opportunity/Affirmative Action Employer.**

FACULTY POSITIONS MARQUETTE UNIVERSITY

Biology Department has two tenure-track assistant professorships, beginning 15 August 1986. Candidates must have postdoctoral experience, ability to develop an independent research program, and potential to attract extramural support to complement local support.

MOLECULAR GENETICIST. Establish research program in molecular biology or molecular genetics, preferably with prokaryotes or yeasts. Teach undergraduate laboratory course in microbiology and graduate specialty course in alternate years.

DEVELOPMENTAL BIOLOGIST. Establish research program in some area of contemporary developmental biology at the cellular and/or molecular level. Teach undergraduate laboratory course in developmental biology and graduate specialty course in alternate years.

Send curriculum vitae, names and addresses of at least three references, and statement of current research interests to: **Dr. Peter Abramoff, Department of Biology, Marquette University, Milwaukee, Wis. 53233. An Affirmative Action/Equal Opportunity Employer.**

FACULTY POSITION—TOXICOLOGY. The Division of Environmental Medicine and Toxicology at Jefferson Medical College has a position available at the level of assistant professor. The successful candidate will join a combined basic science and clinical science research group studying environmental toxins. The new faculty member will be expected to develop a rigorous research program that meshes well with existing programs, but which can be independent in nature. Special consideration will be given to candidates studying toxins (parent compounds or reactive metabolites) that act on the nervous system or on the liver. Financial support is available both for salary and for equipment. Interested persons should submit a brief statement of their research interests, curriculum vitae with a list of publications, and the names of three persons who can provide letters of reference. These materials should be forwarded to: **Dr. Lance L. Simpson, Professor of Medicine and Pharmacology, Jefferson Medical College, 1025 Walnut Street, Philadelphia, Pa. 19107. Equal Opportunity Employer.**

FACULTY POSITIONS DEPARTMENT OF BIOCHEMISTRY AND MOLECULAR BIOLOGY

The Department of Biochemistry and Molecular Biology, Louisiana State University (LSU) Medical Center, invites applications for 12-month, tenure-track faculty positions at the level of assistant, associate, or full professor. Applicants should have postdoctoral or additional experience and are expected to establish a strong, independent research program in the Medical Center. All areas of biochemical research will be considered. Both the Medical Center and department have undergone substantial expansion in the last 5 years. In addition to the School of Graduate Studies, the Medical Center includes Dental, Medical, and Nursing schools, and the School of Allied Health Professions. Interest and excellence in teaching is expected. Applicants should send curriculum vitae, bibliography, a three-page summary of research goals, and the names of three references to the following: **Robert Roskoski, Jr., Head, Department of Biochemistry and Molecular Biology, LSU Medical Center, 1100 Florida Avenue, New Orleans, La. 70119.**

The Louisiana State University is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

FACULTY POSITION UNIVERSITY OF LOUISVILLE CELLULAR BIOLOGIST

Tenure-track position to be filled for the 1986 to 1987 academic year at the assistant professor level, Department of Biology, University of Louisville. Ph.D. required. Teaching responsibilities will include an undergraduate course in cellular biology, in addition to development of undergraduate and graduate courses in the field of specialty, with contributions also to the general curriculum and research capabilities of the Biology Department. Applications must be received by 15 January 1986. Submit curriculum vitae, official transcripts, list of publications, and names, addresses, and telephone numbers of six persons from whom letters of reference may be obtained to: **Dr. Roger G. Lambert, Chair, Cellular Biologist Search Committee, Department of Biology, University of Louisville, Louisville, Ky. 40292. Affirmative Action/Equal Opportunity Employer.**

FACULTY POSITION—DEPARTMENT HEAD

The Department of Biology at Berry College invites applications for a tenure-track position for associate professor/professor, available beginning September 1986. Depending upon qualifications, the position will include department head. A Ph.D. is required and the applicant should have sufficient full-time teaching experience to recognize the scope of activities suitable to a liberal arts biology department. He or she should also have an active interest in a research program which involves undergraduates and makes use of a 28,000-acre campus consisting of forests, lakes, pasture, crops, and cattle. The applicant should be specialized in one of the biological sciences. Candidates should submit a résumé and three letters of reference to: **Dr. John McDowell, Department of Biology, Berry College, Mt. Berry, Georgia 30149. Application deadline: 1 January 1986. Equal Opportunity Employer.**

FLATHEAD LAKE BIOLOGICAL STATION (FLBS) UNIVERSITY OF MONTANA

LIMNOLOGIST: The Director of FLBS requires a senior assistant to help supervise ongoing and proposed limnological studies on a variety of projects, but with emphasis on ecology of stream and lake regulation. This is a nontenurable, soft-money position for a river ecologist with research expertise in the life histories and ecology of aquatic insects, particularly the *Trichoptera* and *Diptera*. This is a permanent faculty-level position, contingent on annual availability of funds, and may involve teaching and supervision of graduate students. Must have Ph.D. in stream limnology, with expertise or training in systems ecology and/or fisheries. A minimum of 3 years of postdoctoral work and an outstanding, peer-reviewed publication record required. Must be available by 6 January 1986.

Interested persons should submit letter of application, curriculum vitae (listing three references), and reprints of selected journal papers to: **Dr. Jack A. Stanford, Flathead Lake Biological Station, Bigfork, Montana 59911, by 7 December 1985. An Equal Opportunity/Affirmative Action Employer.**

MARINE SCIENTIST. Williams College invites applications for 2-year renewable position beginning July 1986 teaching oceanography and marine ecology in American Maritime Studies program at Mystic Seaport Museum to undergraduates from liberal arts colleges. Coastal environment, marine laboratory, and offshore research. Qualifications: Ph.D., teaching experience, active research interests, commitment to liberal arts; postdoctoral experience preferred. Send curriculum vitae, names of three references, and covering letter before 20 December to: **Benjamin W. Labaree, Director, Williams-Mystic Program, Mystic Seaport Museum, Mystic, Conn. 06355. An Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL RESEARCH/TEACHING FELLOWSHIP in cell and developmental biology. Available 1 July 1986. Position includes research on gene expression during *Drosophila* oogenesis with Dr. Gail Waring and teaching undergraduate laboratory course to majors in spring semester only. Experience with molecular techniques desired. Two-year appointment at \$24,000 per annum. Send curriculum vitae and three letters of reference to: **Dr. Peter Abramoff, Biology Department, Marquette University, Milwaukee, Wis. 53233.**

POSITIONS OPEN

GEOPHYSICIST

The Charles F. Richter Laboratory of the University of California, Santa Cruz (UCSC) invites applications for an assistant/associate research seismologist position in geophysics. Applicants with outstanding research potential, including postdoctoral experience and publications, will be given highest preference. Areas of special interest at the Charles F. Richter Laboratory are: seismotectonics, theoretical wave propagation, tomography, reflection seismology, and geophysical fluid dynamics.

RANK: Assistant/Associate Research Seismologist.

SALARY: \$32,800–\$51,600.

MINIMUM QUALIFICATIONS: Ph.D. in geophysics.

EFFECTIVE DATE: 15 January 1986.

APPLY TO:

Search Committee
Charles F. Richter Seismological Laboratory
University of California
Santa Cruz, Calif. 95064

(Please refer to T85-12 when applying.)

CLOSING DATE: 15 December 1985.

UCSC is an Equal Opportunity/Affirmative Action Employer.

HEAD, DIVISION OF SCIENCE

Search committee seeks a division head for the Division of Science at Northeast Missouri State University (NMSU). NMSU is recognized nationally for its award-winning Value-Added Model of Assessment and has been designated as Missouri's premier liberal arts and sciences university.

The Sciences Division is one of 13 academic divisions and serves approximately 800 majors with 44 full-time faculty members representing the following disciplines: biology, chemistry, physics, agriculture, animal health technology, and science education. Master's programs are offered in biology and science education.

Applicants must have an earned doctorate in a science field with an outstanding academic record and demonstrated scholarship. Candidates with skills in leadership, administration, curriculum development, research, and grantsmanship are desired. Salary is negotiable based on qualifications and experience.

Please forward letter of application, curriculum vitae, academic transcripts (undergraduate and graduate), and three letters of reference to: Dr. Gary Sells, Search Committee, Division of Science, Northeast Missouri State University, Kirksville, Mo. 63501.

Application deadline is 15 January 1986, or until position is filled. NMSU is an Equal Opportunity Employer.

Northeast Missouri State University
Value Added to Your Future

LABORATORY DIRECTOR

Intellectually challenging stable academic research position with both long-term career and leadership capacity potential. A typically qualified candidate should hold the Ph.D. degree (American or United Kingdom school), having had at least one (preferably more) postdoctoral experiences. Background in cell biology and/or biochemistry needed with experience in applied immunochromatography and related protein characterization techniques. Work at present entails the above, plus protein-lipid interactions. Salary and fringe benefits competitive. Equal Opportunity Employer. Send curriculum vitae and references to:

G. I. Research Unit
Cleveland Clinic Foundation
9500 Euclid Avenue
Cleveland, Ohio 44106

MATHEMATICAL STATISTICIAN (PSYCHOMETRICS) MATHEMATICAL STATISTICIAN needed to develop theorems, proofs, and statistical methodology for use in psychometrics. Evaluate literature relevant to psychometrics, social and behavioral sciences, develop theorems, and lemmas extending basic results in multivariate statistics. Write reports on research results. Utilize computers to develop methods for analysis of data. Ph.D. (mathematics) required, plus 6 months mathematical statistician or 6 months research associate (statistics and psychometrics) which must have included developing mathematical theorems, proofs, and statistical methodology for psychometrics. Must be able to use computers to analyze data; \$2027 per month. Job in Los Angeles. Send ad and résumé to: Job Number NOF-5324, P.O. Box 9560, Sacramento, California 95823-0560 by 9 December 1985.

Manager Parenteral Pilot Plants

Here is the opportunity to make utmost use of your PhD in Pharmaceutical Science (or related area), your strong background in parenteral research and/or production, and at least 2 years of supervisory experience.

Wyeth Laboratories—a world leader in pharmaceuticals, biologicals and other product categories—has a senior level opening in its Pilot Plant Division. This position is based at our suburban Philadelphia operation in West Chester, PA with additional responsibilities for a second facility in nearby Lancaster County.

You'll be directing and coordinating pilot plant and validation units at our manufacturing facilities, maintaining liaison with pharmaceutical production and QA, handling scheduling with R&D, supervising formula and process evaluations, initial and subsequent scale-ups, various validations, appraisals and documentation, and supervising a score of technical personnel. This—and a great deal more—will make you a vital factor in our growth.

Investigate your future at Wyeth. For prompt, entirely confidential consideration, please send resume with salary history to: **Position #WC3874-C, Recruitment Manager, Wyeth Laboratories, Inc., P.O. Box, 8299, Philadelphia, PA 19101.** Equal Opportunity Employer. M/F/H/V responses encouraged.

Wyeth Laboratories, Inc.



TM

HOFFMANN-LA ROCHE

Associate Scientist

As an internationally known leader in the research and development of pharmaceuticals and fine chemicals, Hoffmann-LaRoche can offer a rewarding career opportunity to a professional with extensive experience in HPLC, including methods development.

Your major responsibilities will involve performing studies on the pharmacokinetics of experiments with antimicrobial agents in laboratory animals. Candidate should have a BS or MS in Chemistry, Biochemistry or a related discipline and 3-6 years solid laboratory analytical experience. Familiarity with microbiological techniques and the ability to handle/control small animals in a laboratory environment would be desirable.

Roche offers a fully commensurate salary, excellent benefits, and the opportunity to advance within a truly professional organization. Please send your resume to: Norm Brown



An equal
opportunity employer

**HOFFMANN-
LA ROCHE INC.**
Nutley, NJ 07110

Products that matter
from people who care

POSITIONS OPEN

IMMUNOLOGIST. Recent Ph.D. with postdoctoral experience to work in vitro on mechanisms of lymphokine-induced regressions of human malignant melanoma. Experience with lymphokines, cytotoxicity assays, fluorescence microscopy, and tissue culture desirable. Applicants should be informed and innovative, as well as technically skilled. Position available immediately. Send curriculum vitae and names of three references to: **Dr. Fred T. Valentine, New York University Medical Center, 550 First Avenue, New York, N.Y. 10016.**

LABORATORY INSTRUCTOR

Temporary, nontenured position to be filled by person with teaching experience and with advanced degree(s) in biochemistry or related discipline to teach undergraduate laboratory courses. Position available January 1986; full-time; 1-year contract renewable annually. Salary and rank negotiable. Send curriculum vitae and three letters of recommendation to: **R. P. Martin, Chair, Search Committee, Department of Biochemistry, Colorado State University (CSU), Ft. Collins, Colo. 80523.** Deadline for receipt of materials is 20 December 1985. *CSU is an Equal Opportunity Affirmative Action Employer.* Office: 314 Student Services Building.

MEDICAL BIOCHEMISTRY FACULTY POSITION

Applications for a tenure-track position at the assistant or associate professor level in biochemistry are sought. Candidates should have postdoctoral experience and will be expected to already have or to develop an independent research program. Research program helpful. Well-equipped department in new medical sciences building. Access to dual laser fluorescence activated cell sorter, gas phase protein sequencer, automated DNA and peptide synthesizer, and SLM-8000 spectrofluorometer. Ph.D. program. Send curriculum vitae, a description of research plans/interest, and the names of three references: **Garret M. Ihler, Head, Department of Medical Biochemistry and Medical Genetics, College of Medicine, Texas A&M University, College Station, Texas 77843-1112.** *Equal Opportunity through Affirmative Action.*

The Center for Environmental Health, Centers for Disease Control, Atlanta, Georgia, is seeking to recruit a **MEDICAL EPIDEMIOLOGIST** to direct a study of reproductive outcomes as they may relate to specific environmental exposures.

Applicants must have a degree in medicine (M.D. or equivalent). In addition to the M.D., a doctoral degree in epidemiology is preferred. Also, they must have formal training and work experience in human genetic epidemiology. Other requirements include a minimum of 2 years of experience in design and analysis of genetic epidemiology studies as evidenced by a significant number of publications in peer-reviewed journals.

Salary range: \$37,599 to 41,358. For technical information related to this announcement, contact: **Dr. Pierre Decoufle, telephone 404-454-4472.** Send résumé to: **Mrs. Louise Griggs, PMO, CDC, 1600 Clifton Road, Atlanta, Ga. 30333.** Applications must be submitted within 3 weeks of this announcement. *An Equal Opportunity Employer.*

MOLECULAR BIOLOGIST/MICROBIOLOGIST—The Department of Veterinary Microbiology, College of Veterinary Medicine, University of Missouri, Columbia, is seeking applicants for a full-time, tenure-track assistant professorship. Applicants should hold a Ph.D. in the area of microbiology, biochemistry, or parasitology. Background should include recombinant DNA technology, gene cloning and expression, synthesis of peptides, and production of monoclonal antibodies. Opportunity exists to collaborate with others in the College of Veterinary Medicine, School of Medicine, College of Agriculture, Biological Sciences Department in the College of Arts and Sciences, and a campuswide molecular biology team. The successful candidate is expected to develop an externally funded research program, perform a collaborative role in research projects, and assume graduate teaching responsibilities. Preference will be given to persons with postdoctoral experience. Applicants should submit curriculum vitae, transcripts, a description of future research and teaching interests, and three references to: **Dr. C. A. Carson, Chairman, Department of Veterinary Microbiology, College of Veterinary Medicine, University of Missouri—Columbia, Columbia, Mo. 65211.** Applications will be accepted until 31 December 1985 or until a suitable candidate is identified. *The University of Missouri is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

MOLECULAR BIOLOGIST/BIOCHEMIST

FMC Corporation is seeking an experienced molecular biologist for the development of new products for the molecular biology market. The individual should have a minimum of 3 years of hands-on experience in manipulation of DNA, including isolation, restriction, ligation, sequencing, blotting, probe construction, transformation, and related techniques. Experience with RNA manipulation is highly desirable. Preferred educational background would include a master's degree in an appropriate area. The facility is located in a small town in an attractive area of the Maine coast. Please send your résumé in confidence to: **Patricia Wallace, FMC Marine Colloids, Box 308, Rockland, Maine 04841.** *FMC is an Affirmative Action/Equal Opportunity Employer.*

MOLECULAR AND CELL BIOLOGISTS

The Department of Tumor Cell Biology is seeking applicants for two faculty and one postdoctoral positions. Faculty appointments will be made at either the assistant or associate member level and are intended for individuals interested in full-time, basic research. Requirements include a Ph.D. and/or M.D. degree, and previous postdoctoral experience. The department, newly established in 1983, presently includes eight faculty members engaged in research on oncogenes, growth factor receptors, hematopoietic differentiation, and gene regulation. Successful candidates will be expected to establish an active research program that complements ongoing activities of the department, and should be well-versed in contemporary methodologies. Possibilities for joint appointment in clinical departments (for example, Hematology-Oncology, Pathology) are available for physician-scientists. Applicants should submit curriculum vitae, a brief statement of research interests, and the names of three references to: **Charles J. Sherr, M.D., Ph.D., Chairman, Department of Tumor Cell Biology, St. Jude Children's Hospital, 332 North Lauderdale, Memphis, Tenn. 38105.**

MOLECULAR GENETICIST—Applications are invited for a position with the U.S. Department of Agriculture (USDA), Agricultural Research Service (ARS), in the Maize Virus Research Program, The Ohio State University, Ohio Agricultural Research and Development Center (OARDC), Wooster, Ohio. Research areas include the expression, isolation, and transfer of genes for virus resistance, vector resistance, and virus-host interactions in maize. Candidates must be knowledgeable in molecular biology, plant genetics and breeding, and have demonstrated accomplishments in plant molecular genetics. U.S. citizenship is required. Ph.D. is desirable. Salary is commensurate with experience; GS-11/12 (\$26,381 to \$41,105). For information, contact: **Dr. Roy E. Gingery (telephone: 216-263-3836), USDA-ARS, OARDC, Wooster, Ohio 44691.** For application procedures and forms, contact: **Barbara Lamb (telephone: 301-344-2756), USDA-ARS, Room 318H, Building 003, BARC-West, Beltsville, Md. 20705.** *An Equal Opportunity Employer.* Application must be postmarked by 31 December 1985.

MOLECULAR IMMUNOLOGY DEPARTMENT OF MICROBIOLOGY UNIVERSITY OF VIRGINIA

Applications are invited for a tenure-track position in molecular immunology at the assistant or associate professor level. Position will include a joint appointment in the Cancer Center. Candidates will be expected to maintain an active, independent research program, and to engage in limited teaching of graduate and medical students. Available are well-equipped physical and support facilities, and well-funded graduate and postdoctoral training programs. Applicants should submit curriculum vitae, a statement of current and planned research, and the names of three referees to: **Dr. Victor E. Engelhard, Box 441, University of Virginia School of Medicine, Charlottesville, Va. 22908.**

An Equal Opportunity/Affirmative Action Employer

PLANT ECOLOGIST/SYSTEMATIST ASSISTANT or associate professor, tenure-track, to begin as soon as January 1986. Applicants will teach courses in plant ecology, systematic botany, and biology. Preference may be given to wetlands ecologists. The candidate is expected to supervise graduate students, develop an active research program, and assist in the herbarium. Ph.D. required. Send curriculum vitae, transcripts, and three letters of recommendation by 13 December to: **Gary W. Childers, Department of Biology, P.O. Box 814, Southeastern Louisiana University, Hammond, La. 70402.** *Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

NEUROBIOLOGIST. The Department of Biology at the University of Virginia invites applications for a tenure-track position at the assistant professor level. Applicants should present evidence of a strong research background in neurobiology. We are especially interested in the areas of molecular, cellular, developmental, or behavioral neurobiology. The successful candidate will be expected to develop an independent research program and to participate in both undergraduate and graduate teaching. Senior neurobiologists with exceptional qualifications will be considered for appointment at an appropriate level. Applications and three letters of reference should reach the Search Committee by 1 January 1986. Apply to: **Professor O. L. Miller, Jr., Chairman, Neurobiology Search Committee, Department of Biology, University of Virginia, Charlottesville, Va. 22901.** *An Affirmative Action/Equal Opportunity Employer.*

NEUROBIOLOGIST

The Department of Biological Science, California State University, Fullerton, invites applications for a tenure-track faculty appointment (preferably at the assistant professor level) in **NEUROBIOLOGY** to begin fall 1986. Qualifications include a Ph.D. and appropriate research experience. Candidates with interests in any aspect of neurobiology are encouraged to apply; however, we are most interested in candidates with research expertise in cellular or molecular neurobiology. Successful candidates will be expected to participate in undergraduate and graduate teaching, and to establish an independent, productive research program. Applicants should submit curriculum vitae, representative reprints, and brief statements of teaching experience and research interests and plans; additionally, three letters of recommendation should be forwarded separately to: **Dr. Charles C. Lambert, Chair, Search Committee, Department of Biological Science, California State University, Fullerton, Calif. 92634.** Deadline for applications is 15 February 1986. *The University is an Affirmative Action/Equal Opportunity Employer and encourages applications from women and minority candidates.*

RUTGERS UNIVERSITY CENTER OF ALCOHOL STUDIES

Seeks **TWO NEUROSCIENTISTS** to fill tenured senior research positions at the highest level. Candidates must have a distinguished record of accomplishment in basic research and scholarly achievement. A candidate must be willing to pursue an active basic research program in alcohol related areas.

Rutgers offers competitive salaries, start-up funds, new laboratory space, and an opportunity for active collaborative research. Light graduate teaching load.

Qualified candidates should send curriculum vitae and a letter expressing their interests to:

**Dr. Larissa Pohorecky, Chair
Center of Alcohol Studies Search Committee
Smithers Hall—Busch
Rutgers—The State University of New Jersey
Piscataway, New Jersey 08854**

An Affirmative Action/Equal Opportunity Employer

POSTDOCTORAL FELLOW INSECT RESEARCH

The Insect Research Department of Zeecon Corporation is seeking a postdoctoral scientist to participate in an interdisciplinary research team studying insect neuropeptide/neurotransmitter systems.

Requires experience with electrophysiological, immunological, and biochemical techniques.

Zeecon Corporation, a subsidiary of Sandoz, has been a leader in innovative biological research for more than 15 years. This broadly based agricultural biotechnology firm has established research programs in molecular biology, plant tissue culture, plant pathology, and insect physiology.

Our research laboratories are located in Palo Alto, California, in close proximity to Stanford University. We conduct our research in an open, academic-like environment which strongly encourages publication and interaction with other scientists throughout the world.

To apply for this position, please send curriculum vitae and three references to:

**Employee Relations
ZEECON CORP
975 California Avenue
Palo Alto, Calif. 94304**

Equal Opportunity/Affirmative Action Employer

Course Announcement

FUNDAMENTAL NEUROBIOLOGICAL APPROACHES TO DISEASE: Epilepsy

February 2-7, 1986

The Neurosciences Institute will sponsor a course on epilepsy emphasizing the disease process as an object for biological research. The purpose is to introduce scientists to the basic physiology and pathology of a human neurological disorder and to the opportunities it provides for solving fundamental biological problems.

This intensive course will review clinical phenomena of the epilepsies and pertinent areas in basic neuroscience. The format includes lectures, clinical case presentations, and small group discussions. Instructors include Paul Adams, Per Andersen, Floyd Bloom, Robert Collins, Barry Connors, Maxwell Cowan, Sir John Eccles, Robert Moore, Vernon Mountcastle, George Newman, Fred Plum, David Prince, Philip Schwartzkroin, and Arthur Ward.

Applications are invited from scientists with advanced training and experience in neuroscience and related biological sciences. Participants' expenses will be reimbursed by the Institute.

For application forms or further information, please write to Dr. W. Einar Gall, Research Director, The Neurosciences Institute, 1230 York Avenue, New York, New York 10021, or telephone (212) 570-8975.



The Neurosciences Institute
of the Neurosciences Research Program

BASIC AND APPLIED BIOMEDICAL SCIENTISTS AND TECHNICIANS

Bionetics Research, Inc. is expanding a new advanced biotechnology initiative in research and development related to human monoclonal antibodies, protein biochemistry, tumor immunology, lymphokine research and development, recombinant genetics, clinical immunotherapy, and in vitro and in vivo diagnostics. We need individuals at the PhD and BS/MS levels with established credentials to support these on-going projects. Experience applicable to one of the following areas is required (postdoctoral fellowships will be considered):

- **CANCER BIOLOGY/IMMUNOLOGY** related to the immunopharmacology of lymphokines
- **IMMUNOCHEMISTRY** human and murine monoclonal antibodies to tumor cell antigens. Investigation of in vitro and in vivo diagnostic/therapeutic applications
- **MOLECULAR BIOLOGY** research in genetics of gene expression in E. Coli and Eukaryote gene cloning. Development and application of expression vectors, construction and analysis of cDNA and genomic libraries.
- **BIOCHEMISTRY** protein sequencing, amino acid analysis, protein purification and characterization.
- **DIAGNOSTIC IMMUNOLOGY** using monoclonal antibodies for bacterial and viral pathogens.
- **CELL CULTURE TECHNOLOGY** specifically related to monoclonal antibody production.

This is an attractive opportunity for scientists and technicians interested in basic research, biotechnology, and technology transfer. This new research initiative will work closely with our established and rapidly growing pharmaceutical and diagnostic products divisions.

Attractive compensation package includes medical/ life/dental insurance, 401(K) retirement and savings, and more. Please send resume including salary history in confidence to:

M. G. Hanna, Jr., PhD, Director
Bionetics Research, Inc.
1330 Piccard Drive
Rockville, MD 20850
(301) 881-5600, ext. 177

An Equal Opportunity Employer.

 **BIONETICS RESEARCH, INC.**

POSITIONS OPEN

PARASITOLOGY/INFECTIOUS DISEASE

The Division of Biology at Kansas State University (KSU) has a tenure-earning position available at the assistant professor level effective 1 September 1986. Applications are invited from outstanding candidates in parasitological research or other areas of infectious diseases. We particularly are interested in individuals who have had a postdoctoral experience and who approach their research at the immunological, developmental, molecular, and/or genetic levels. The successful candidate will be expected to establish a vigorous and creative research program and to participate in graduate and undergraduate teaching. Candidates should apply by 31 December 1985 by submitting curriculum vitae and a brief description of future research plans, and by having three letters of reference sent to:

Terry C. Johnson, Director
Division of Biology, Ackert Hall
Kansas State University
Manhattan, Kans. 66506

KSU is an Equal Opportunity/Affirmative Action Employer.

PEDIATRIC PATHOLOGIST/ELECTRON MICROSCOPIST. The Anatomic Pathology Division, Department of Laboratories, Children's Hospital of Los Angeles (CHLA), an affiliated Hospital of the University of Southern California School of Medicine, is seeking a pediatric pathologist (M.D.) with electron microscopy experience, to head its Electron Microscopy Section. Experience with both TEM and SEM preferred. AP certification and eligibility for California medical license necessary. Position involves diagnostic TEM (emphases on kidney, muscle, ciliary and storage diseases, tumors), conduct of research, supervision of EM support of research of other AP faculty and trainees and of clinical programs, and fraction of time in other anatomic pathology functions. Qualification by background and publications for tenure-track in faculty of University of Southern California School of Medicine preferred. Starting date: 1 July 1986 or before. Interested persons should send curriculum vitae to: **Dr. Hart Isaacs, Chairman of EM Search, Department of Laboratories, AP Division, Children's Hospital of Los Angeles, 4650 Sunset Boulevard, Los Angeles, Calif. 90027.** CHLA and USC are Equal Opportunity Employers.

The Department of Surgery, Loma Linda, California, Veterans (VA) Hospital is seeking a **PHYSIOLOGIST** (immunology) for a full-time position. B.S. degree in physiology and 3 years of professional experience or M.S. (physiology) with superior academic achievement required. Duties include radio immune assay, evaluation of tissue growth patterns, preparation of tissues for transplantation, and supervision of clinical/research programs. Salary: \$31,619 to \$41,105. Address inquiries to: **Personnel, 11201 Benton, Loma Linda, Calif. 92357, or telephone: 714-825-7084, extension 2965, attention: Jan.**

The Department of Biology invites applications for tenure-track position in **PLANT COMMUNITY ECOLOGY** beginning August 1986 (subject to legislative funding) at assistant professor level. Candidates must be actively engaged in significant research on any aspect of plant community ecology and have commitment to excellence in teaching; postdoctoral experience preferred. Expertise in biometrics (especially multivariate analysis) required, and teaching in this area, in graduate ecology course, and undergraduate biology, is expected. Successful applicant expected to develop strong research and graduate training programs, emphasizing interactions with the large group of ecologists and evolutionary biologists. Applicants should send curriculum vitae, reprints, statement of research interests and professional goals, and arrange to have three letters of reference sent by 10 January 1986 to: **Plant Community Ecology Search Committee, Department of Biology, University of New Mexico, Albuquerque, N.M. 87131.** Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION (PHARMACOLOGY)

Position available immediately in an active medicinal chemistry laboratory. Previous experience with drug assays and small animal surgery essential. Experience with anti-neoplastics and cell biology preferred. Send letters of application, including current curriculum vitae, description of research interests and the names of three individuals who can be contacted for references, to: **Dr. R. J. Bergeron, Department of Medicinal Chemistry, University of Florida, Gainesville, Florida 32610.**

POSITIONS OPEN

PLANT MORPHOGENESIS

California State University, Chico (CSUC), seeks a candidate to fill a tenure-track position in the Department of Biological Sciences. Applicants must have a Ph.D. or equivalent in some area of plant morphogenesis and experience in tissue culture of vascular plants. Experience in molecular biology is desirable. A strong interest in teaching is essential and the establishment of an active research program is expected.

Primary responsibilities will be to teach a graduate course in plant morphogenesis, an upper-division cell biology course, and laboratory sections in basic biology and botany. Starting salary in mid-\$20,000's. Interested, qualified persons should submit curriculum vitae and names of three references to: **Dr. Roger Lederer, Chair, Department of Biological Sciences, California State University, Chico, Calif. 95929.** CSUC is an Affirmative Action Employer. Application deadline will be 14 February 1986.

POSTDOCTORAL FELLOW/RESEARCH ASSOCIATE (with potential for further advancement) to perform research on the regulation of hematopoiesis, developmentally regulated surface markers on normal and neoplastic hematopoietic cells, autologous bone marrow transplantation, and dye-mediated photosensitization. Ph.D. or equivalent degree required; background in cell biology, membrane biochemistry, and/or immunology desirable. Available immediately. Salary commensurate with qualifications and experience. Send résumé with the names and addresses of three references to: **Dr. Fritz Sieber, Midwest Children's Cancer Center, Department of Pediatrics, Medical College of Wisconsin, P.O. Box 1997, Milwaukee, Wis. 53201.**

Equal Opportunity/Affirmative Action Employer, M/F/H

POSTDOCTORAL NUTRITION TRAINING at the University of Pennsylvania Medical Center. Appointments are available 1 July 1986. National Institutes of Health-sponsored Research Traineeships in Cancer and Nutrition (James Mullen, M.D., Program Director) and Clinical Nutrition (David Kritchevsky, Ph.D., Program Director) and Clinical Fellowships in Nutrition/Metabolism (James Mullen, M.D., Program Director) are awarded on an Equal Opportunity basis. Research Traineeships with core didactic and nutrition research components are available for M.D.'s with 2 years of residency training and for Ph.D.'s. M.D.'s with greater than 3 years of residency training may apply for Clinical Fellowships with the Hospital of the University of Pennsylvania (HUP) Nutrition Support Service. Application deadline: 1 March 1986. For further information, contact: **Irene Feurer, M.S. Ed., Nutrition Support Service, 2 Piersol, HUP, 3400 Spruce Street, Philadelphia, Pa. 19104; telephone: 215-662-3223.**

POSTDOCTORAL POSITIONS available immediately to work on the molecular analysis of the genes for Na,K-ATPase and red cell membrane proteins, in the laboratories of Drs. E. J. Benz, Jr., B. G. Forget, and R. Levenson at Yale University School of Medicine. Candidates should preferably have some prior experience with molecular biology and recombinant DNA techniques and must be eligible for National Research Service Awards of the NIH. Send curriculum vitae plus three letters of reference to: **Dr. Bernard G. Forget, Department of Medicine, Yale University School of Medicine, 333 Cedar Street, New Haven, Conn. 06510-8056.** An Affirmative Action/Equal Opportunity Employer.

TWO POSTDOCTORAL POSITIONS available 10 January 1986 for 3 years for study on integrative processes and learning in molluscs. Experience can be in cellular, behavioral, neuropharmacological, or computational neurobiology. Previous research experience need not be on molluscs. Send résumé and two reference letters to: **George J. Mpitso, Oregon State University, Mark O. Hatfield Marine Science Center, Newport, Ore. 97365.** Oregon State University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available in Tufts Cancer Center/Hematology Oncology Division, January 1986. Individual with background in immunology and/or molecular genetics sought for project involving the immunogenetic analysis of human malignant lymphoma. Experience in monoclonal antibody, antidiagnostic antibody, or molecular biological techniques desirable. Send résumé and names of three references to: **Dr. Richard A. Rudders, Tufts-New England Medical Center, 171 Harrison Avenue, Boston, Mass. 02111.**

POSITIONS OPEN

POSTDOCTORAL OPPORTUNITIES

BIOCHEMISTRY

University of Minnesota

Applications are invited for a postdoctoral associate position in a research program involving studies of the microbial metabolism of hydrocarbons and related compounds. Successful applicants will work with a University of Minnesota professor on leave of absence in the Environmental Laboratory of the U.S. Environmental Protection Agency located in Gulf Breeze (near Pensacola), Florida. The position is immediately available for up to 2 years. Applicants should have a Ph.D. in biochemistry or a related field and research skills in microbial metabolism, organic chemistry, and biochemistry and be prepared to live within commuting distance of the research laboratory. Send curriculum vitae and names of three references to: **Dr. Peter Chapman, U.S. Environmental Protection Agency, Environmental Research Laboratory, Sabine Island, Gulf Breeze, Florida 32561.** Salary is negotiable. Deadline for receipt of applications is 8 December 1985. *The University of Minnesota is an Equal Opportunity Educator and Employer and specifically invites and encourages women and minorities to apply.*

POSTDOCTORAL POSITION UNIVERSITY OF ROCHESTER SCHOOL OF MEDICINE AND DENTISTRY

Theoretical studies of effect of sequence alteration on protein structure, particularly cytochromes c. Background in theoretical chemistry, protein physical chemistry, biophysics, or crystallography desirable. January 1986 starting date possible. Salary: \$19,000 per year. Send résumé and three letters of recommendation to: **Professor S. Rackovsky, Department of Radiation Biology and Biophysics, School of Medicine and Dentistry, University of Rochester, Rochester, New York 14642.**

Equal Opportunity Employer, M/F

UNIVERSITY OF CALIFORNIA, SAN FRANCISCO

POSTDOCTORAL POSITIONS (two) available immediately. Positions will be in one of two collaborating research groups in the Metabolic Research Unit, working on molecular biological aspects of gene expression with particular emphasis on their relationship to human hypertension. Excellent opportunity for a dedicated, innovative scientist to apply a multidisciplinary approach to problems of medical importance. Recent M.D.'s or Ph.D.'s should send their curriculum vitae, a brief description of their research experience, short- and long-term research goals, and the names of three references to: **Dr. David G. Gardner or Dr. Tim L. Reudelhuber, Metabolic Research Unit, 671-HSE, University of California, San Francisco, Calif. 94143, by 31 December 1985.** Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

Available immediately to study the molecular biology of T cell receptors. Experience in recombinant DNA methodologies essential. Possibility of instructor level position dependent upon credentials. Send curriculum vitae and three letters of reference to:

Dr. John J. Marchalonis
Department of Biochemistry
Medical University of South Carolina
171 Ashley Avenue
Charleston, South Carolina 29425
An Equal Opportunity Employer

POSTDOCTORAL RESEARCH ASSOCIATE POSITION

in a cardiovascular laboratory available immediately for isolation and characterization of vasoactive substances from biological tissues. An individual with a background in biochemical pharmacology or bioorganic chemistry is preferred and with experience in analytical methodologies is essential. Send curriculum vitae and list of publications to:

Dr. Raymond J. Winquist, Research Fellow
Department of Cardiovascular Pharmacology
Merck Institute for Therapeutic Research
Merck Sharp & Dohme Research Laboratories
West Point, Pa. 19486
Equal Opportunity/Affirmative Action Employer, V/H

POSITIONS OPEN

POSTDOCTORAL POSITION available immediately to participate in a multidisciplinary research effort investigating the molecular biology of human colon carcinoma. The successful candidate will study human colonic epithelial cell differentiation by developing and characterizing monoclonal antibodies that distinguish stages of colonic development and neoplastic progression. Candidates should have a Ph.D. in cell biology, immunology, or a related discipline with zero to 3 years of postdoctoral experience. Experience in mammalian cell culture and antibody production is preferred. This is a collaborative research effort between the Departments of Pathology at Hahnemann University and Cell Biology at Smith Kline and French Laboratories. Salary: \$20,000. Please send curriculum vitae and names of three references to: **Dr. Ivan Damjanov, Department of Pathology M.S. 453, Hahnemann University, Broad and Vine Streets, Philadelphia, Pa. 19102.**

FOUR POSTDOCTORAL RESEARCH ASSOCIATES to join a well-equipped, spacious laboratory to work on either one or a combination of the following areas: (i) study of redox enzyme mechanisms by chemical, kinetic, and physicochemical approaches; (ii) enzyme design by cloning and site-specific mutagenesis; and (iii) development of bio- and chemi-luminescence as analytical tools. Two positions are available immediately and two more in January 1986. Individuals with experience in enzymology, organic chemistry, recombinant DNA technology, and/or immunoassay preferred. Send curriculum vitae and names of three references indicating position of interest to: **Dr. Shiao-Chun Tu, Department of Biochemical and Biophysical Sciences, University of Houston—University Park, Houston, Tex. 77004. An Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL PROTEIN CRYSTALLOGRAPHY position is available for a crystallographer to study the structure of myosin subfragment-1. The research involves protein purification, crystal growth, and data collection. Applicants with experience in any aspect of crystallography will be considered. Salary commensurate with experience. Send résumé and three letters of recommendation to: **Dr. Ivan Rayment, Department of Biochemistry, University of Arizona, Biological Sciences West, Tucson Ariz. 85721. The University of Arizona is an Equal Opportunity Employer.** Closing date: 31 January 1986.

POSTDOCTORAL RESEARCH OPPORTUNITIES DEPARTMENT OF BIOCHEMISTRY, PURDUE UNIVERSITY

- Positions are available offering training in:
- Analytical and preparative protein purification by HPLC and other state-of-the-art techniques
 - Gene expression in eukaryotes and prokaryotes
 - Peptide hormone biosynthesis
 - Protein translocation across biological membranes
 - Regulation of membrane biosynthesis
 - Regulation of synthesis and posttranslational modification of enzymes
 - Structural analysis of protein and DNA

The faculty has extensive experience in training scientists in modern biochemical and molecular biological techniques and an impressive record of continued grant support. Interested individuals should send a résumé, including a brief statement of specific areas of research interest, to: **Postdoctoral Program S, Department of Biochemistry, Purdue University, West Lafayette, Ind. 47907. Purdue University is an Equal Opportunity/Affirmative Action Employer.**

POSTGRADUATE RESEARCH BIOLOGIST I Marine Science Institute University of California, Santa Barbara Santa Barbara, California 93106

Postdoctoral Receptor Research. Position available immediately. Grant-supported research position, 1 year, renewable. Starting salary: \$20,304 per year. **DESCRIPTION:** Labeling, characterization and affinity-purification of receptors controlling metamorphosis of molluscan larvae.

APPLICATION: Send curriculum vitae, copies of relevant publications, statement of research interests, and arrange for three letters of recommendation to be sent promptly to: **Professor Daniel E. Morse, Department of Biological Sciences, University of California, Santa Barbara, Calif. 93106; telephone: 805-961-3157. Deadline for receipt of application: 16 December 1985.**

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

POSITIONS OPEN

POSTDOCTORAL RESEARCH, BIOCHEMISTRY/NEUROBIOLOGY, available March 1986 to study the function of protein carboxyl methylation in neurons and related cell types. Experience in protein purification, HPLC, gel electrophoresis, and immunoblotting is desirable. Send curriculum vitae and three reference letters to: **Dr. Dana Aswad, 231 Steinhaus Hall, School of Biological Sciences, University of California, Irvine, Calif. 92717. The University of California is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL TRAINING IN CLINICAL BIOCHEMISTRY exposes the candidate to all practical aspects of clinical chemistry, with particular emphasis on the clinical uses of recombinant DNA technology. Currently developing genetic analysis laboratory for carrier detection and antenatal diagnosis of Duchenne muscular dystrophy, hemophilia, fragile X, sickle cell anemia, etc. Two-year position is available 1 July 1986 for candidates holding a doctoral degree in medical, chemical, or biological sciences. Deadline for applications is 1 January 1986. Send curriculum vitae and names of three references to: **L. M. Silverman, Ph.D., Room 1071 PST, North Carolina Memorial Hospital, University of North Carolina, Chapel Hill, N.C. 27514. An Equal Opportunity/Affirmative Action Employer.**

PROFESSIONAL POSITIONS PHYSIOLOGY

The City University of New York Medical School is responsible for an innovative, 7-year program leading to a combined B.S./M.D. degree. Goals of the School are to train primary care physicians who will practice superior preventative and therapeutic medical care in underserved urban communities and also to provide access to a career in medicine for students of ethnic backgrounds whose communities have been historically underserved by primary care physicians.

The School invites applications for three appointments. These will be at a rank and salary commensurate with qualifications and experience. The successful candidate for this position should have a Ph.D. or M.D. degree and at least 2 years of postdoctoral research experience and a commitment both to developing innovative teaching programs in the areas of medical and human physiology and to excellence in research; research in cardiovascular, autonomic neurotransmitters and all other areas of physiology considered.

The position is available immediately. Letters of application must include curriculum vitae and three references. Applications must be postmarked no later than 15 December 1985 and should be addressed to: **Dr. Stanley Kalsner, Chairman, Department of Physiology, City University of New York Medical School,**

THE CITY COLLEGE OF CUNY Convent Avenue at 138th Street New York, N.Y. 10031

An Affirmative Action/Equal Opportunity Employer

Berea College—PROFESSOR OR ASSOCIATE AND CHAIRPERSON of the Biology Department. Ph.D. and a minimum of 7 years of experience as an undergraduate teacher, some research experience, demonstrated ability to provide collegial leadership and teach introductory courses and one or more of: genetics, molecular biology, or physiology. Berea is a liberal arts college with special commitments to the Appalachian region, interracial education, and an understanding of Christian tradition. Before 1 January 1986. Write: **Dean William F. Stolte, Berea College, Berea, Ky. 40404.**

University of South Florida, College of Medicine, will have openings for a **PROFESSOR, ASSOCIATE PROFESSOR, ASSISTANT PROFESSORS, INSTRUCTORS AND AN ASSOCIATE IN RESEARCH.** Experience in the field of adjuvants, construction of synthetic vaccines, analysis of microbiologic toxins, and the pharmacology, cellular immunology, and immunochemistry of biologic response modifiers and synthetic immunomodulators. Send curriculum vitae and recent publications to: **Jack W. Hickman, M.D., 12901 North 30th Street, Box 53, Tampa, Fla. 33612.**

REED COLLEGE. Tenure-track opening in **STATISTICS**, August 1986. Seeking effective teacher, undergraduate thesis adviser, faculty consultant. Ph.D. in statistics or equivalent. Send curriculum vitae, professional goals statement, and three names asked to submit reference letters by 15 February to: **W. M. Wiest, Chair, Statistics Search Committee, Reed College, Portland, Ore. 97202. Equal Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

UNIVERSITY OF TENNESSEE AT MEMPHIS CENTER FOR THE HEALTH SCIENCES ENDOWED PROFESSORSHIP IN VIROLOGY

An endowed professorship in virology has been established in the Department of Microbiology and Immunology. Candidates for this appointment should possess a distinguished record of sustained research accomplishment and be internationally recognized as leaders in their fields. The conditions of appointment, that is, salary, laboratory space, teaching responsibilities, funds for equipment, and so forth, are exceptionally attractive. The Health Science Center at the University of Tennessee in Memphis has begun a major growth phase. The department has just moved into a completely renovated building and will be appointing at least eight new faculty during the next several years. New faculty are also being appointed in the Departments of Pharmacology and Biochemistry. A large Center of Excellence grant has resulted in development of a Molecular Resource Center within the department featuring state-of-the-art facilities for: DNA cloning and sequencing, oligonucleotide synthesis, peptide synthesis, monoclonal antibody production, amino acid analysis, protein sequencing, and flow cytometry. Curriculum vitae should be sent by individuals applying directly or by nominators to: **Dr. Terrance G. Cooper, Department of Microbiology and Immunology, University of Tennessee Center for the Health Sciences, 858 Madison Avenue, Room 801, Memphis, Tennessee 38163.**

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

RADIOLOGIC SCIENCES (M.S. or Ph.D.) at the level of research associate to assist in the running of an animal/patient cardiac research facility. There will be an academic appointment at the University of Oklahoma. The laboratory is funded by a privately endowed research foundation. The goals of the laboratory are to develop and apply noninvasive cardiac imaging modalities to the study of cardiac disease and physiology. Modalities currently include isotopes, echocardiography, and nuclear magnetic resonance. The associate would assist in study design and execution, data analysis, and manuscript preparation. The associate's training would ideally include radiologic sciences, statistics, computer programming, and physiology. Please forward curriculum vitae and names of three references to:

**Robert D. Okada, M.D.
Saint Francis of Tulsa Medical Research Institute
6465 South Yale
Suite 1010
Tulsa, Oklahoma 74136**

RESEARCH BIOCHEMIST

Postdoctoral research fellow sought to participate in ongoing research projects of the pulmonary section including studies of complement biochemistry, connective tissue biochemistry and biochemistry of pulmonary epithelial cells. Experience in HPLC is necessary. Experience with protein biochemistry is desirable. Interested applicants should contact: **Dr. Stephen I. Rennard, M.D., Chief, Pulmonary Section, Department of Internal Medicine, University of Nebraska Medical Center, 42nd and Dewey Avenue, Omaha, Neb. 68105. The University of Nebraska is an Affirmative Action/Equal Opportunity Employer.**

SENIOR ANALYST/PROJECT DIRECTOR

Technical support agency, U.S. Congress, as member of a multidisciplinary program addressing technologies and policies that affect the ability of U.S. manufacturing industries to compete internationally. The program is looking for a person who can bring to bear a systems view of manufacturing on questions of competitiveness—that is, a view that integrates technology with the skills and motivation of the work force. The applicant should have an advanced degree and several years of experience in engineering, engineering management, work organization design, or the analysis of industrial competitiveness. Broad knowledge of engineering, technology, and industry essential. Experience in manufacturing desirable. Excellent writing and communication skills needed; proven ability to organize complex project and produce results within schedule and budget is required. Ability to examine technology in a context of public policy is desirable. Employment may be on a contract basis or permanent staff basis. Salary is negotiable based on previous experience. Location is in Washington, D.C. Send résumé, salary history, and names of three references to: **Denise DeSanctis, Office of Technology Assessment, U.S. Congress, Washington, D.C. 20510.**

Equal Opportunity Employer

POSITIONS OPEN

RESEARCH ASSISTANT PROFESSOR DEPARTMENT OF ANATOMY AND CELL BIOLOGY SCHOOL OF MEDICINE WAYNE STATE UNIVERSITY

Applications are invited from qualified individuals for a nontenure-track appointment to participate in the research mission of the department. The successful individual should have a Ph.D. degree with a relevant background and documented expertise as evidenced by publications in the neural regulation of secretion at the cellular level, particularly in chemosensory systems. Knowledge of basic neuropharmacological, neurophysiological and morphometric techniques is required as is the capability of generating independent extramural funds. Salary is commensurate with experience.

Please apply in writing, including curriculum vitae and names and addresses, to:

Harry Maisel, M.B., Ch.B.
Chairman, Department of Anatomy
Wayne State University
540 East Canfield
Detroit, Mich. 48201

Equal Opportunity/Affirmative Action Employer

RESEARCH ASSOCIATE

Well-established private research institute located in San Francisco is seeking a molecular biologist with experience in cloning and DNA sequencing for research in the lipoprotein area. Candidates with a B.A., M.S., or Ph.D. in molecular biology and 1 to 2 years of experience are eligible. Excellent benefits. Please send résumé with salary requirements to: Personnel, The Gladstone Foundation Laboratories for Cardiovascular Disease, University of California, San Francisco, P.O. Box 40608, San Francisco, Calif. 94140-0608.

RESEARCH ASSOCIATE

A research position is available in the area of in vitro fertilization and reproductive immunology. Studies include biochemical and immunological analyses of sperm autoantigens, sperm-egg interaction, T-cell antigens, and sperm plasma membranes. Applicants should have a recent Ph.D. and a strong background in immunology, biochemistry, and reproductive biology. Send curriculum vitae and the names of three references to:

Dr. Michael G. O'Rand
Laboratories for Cell Biology
Department of Anatomy
University of North Carolina
at Chapel Hill (UNC-CH)
Chapel Hill, N.C. 27514

Minorities and women are encouraged to voluntarily identify themselves. UNC-CH is an Affirmative Action/Equal Opportunity Employer.

Applications are now being accepted for a SCIENTIST/SENIOR SCIENTIST position in the Cell Culture Laboratory. We are seeking a SCIENTIST/SENIOR SCIENTIST to investigate the cell biology of mammalian cell culture scale-up in an active R & D setting encouraging publication. Research will focus on the cell biology aspects of the mammalian cell expression of recombinant DNA-derived proteins. Preferred candidates should have experience with mass cell culture of adherent cells, including microcarrier or hollow fiber perfusion technology. Research experience in one of the following areas will be helpful: proteases produced by cultured cells, serum-free media, or glycoprotein biosynthesis and processing in cultured cells. Applicants must possess a Ph.D. Postdoctoral training or experience in an industrial research or production setting would be an asset. Interested applicants are invited to send their curriculum vitae, a brief statement of research interests (optional), and three professional references to:

MELOY LABORATORIES, INC.
Attention: Personnel/TD
6715 Electronic Drive
Springfield, Virginia 22151

Equal Opportunity Employer, M/F/H/V

SENIOR STAFF ASSOCIATE IN OPHTHALMOLOGY. The Department of Ophthalmology at Columbia University is seeking a biochemist with expertise in retinoid chemistry and its biochemistry. Use of conventional and high-performance liquid chromatography to isolate retinoids and their isomers from different sources. Enzyme assays and study of retinoid biochemistry in fresh and cultured cells. Send curriculum vitae to: Dr. P. Gouras, Department of Ophthalmology, Columbia University, 630 West 168 Street, N.Y. 10032.

POSITIONS OPEN

RESEARCH BIOACOUSTICIAN

The Department of Zoology of The Ohio State University is seeking a Ph.D. to assume directorship of the **Borror Laboratory of Bioacoustics**. This is a 12-month, administrative and professional position that is not subject to tenure, but the successful candidate may receive an adjunct appointment in the Department of Zoology and may supervise graduate students. The Borror Laboratory of Bioacoustics, which contains one of the world's largest collections of recorded animal sounds, is about to move into expanded quarters. The Department of Zoology has an active program in bioacoustics that would be augmented especially by individuals with experience in field bioacoustics or acoustic neurophysiology. The successful candidate will be expected to supervise the curation, growth, and use of the collection, to develop a strong personal research program, and to join with faculty and students in developing a major research center. Applicants should send résumé, reprints of recent publications, and three letters of reference to: **Chair, Department of Zoology, The Ohio State University, 1735 Neil Avenue, Columbus, Ohio 43210.** Applications must be completed by 6 January 1986.

The Ohio State University is an Equal Opportunity/Affirmative Action Employer.

RESEARCH SCIENTIST Hematology/Oncology Research Laboratory

Full-time position available. Must have Ph.D. in immunology, tumor biology, or molecular biology with emphasis in monoclonal antibodies; grant preparation a must. Will formulate methods of preparing monoclonal antibodies for the purging of tumor cells from bone marrow; investigate neutrophil function on a molecular level. Salary: \$28,000 to \$30,000. Please send résumé to: **Children's Hospital of Orange County, Attention: Jackie Wiesner, 1109 West La-Veta Avenue, Orange, California 92668.**

SYSTEMATIC ENTOMOLOGIST AMERICAN MUSEUM OF NATURAL HISTORY

Tenure-track curatorial position in department with collection in excess of 16 million insect and spider specimens. Primary duty to conduct original collection-based revisionary research of a monographic nature on insects, arachnids, or myriapods, to undertake research-related field work, and to advise graduate students as appropriate. Must assume responsibility for approximately 1/6 of collection and undertake administrative and exhibition responsibilities as assigned, including rotating chairmanship. Background should include broad interest and training in entomology and evolutionary biology, with specialization in phylogenetics, biogeography, co-evolution, or related areas. Appointment at level of assistant curator; salary commensurate with experience. Ph.D. required; postdoctoral experience desirable. Application deadline: 15 February 1986. Starting date: 15 April 1986 or later. Send curriculum vitae, three letters of reference, statement of research goals and interests, and copies of publications to: **Dr. Randall T. Schuh, Department of Entomology, American Museum of Natural History, Central Park West and 79th Street, New York, N.Y. 10024.** An Equal Opportunity/Affirmative Action Employer, M/F/H.

VETERINARY PATHOLOGIST University of Wyoming

A reconstituted Department of Veterinary Sciences with new housing and new equipment invites applications for a full-time tenure-track position of veterinary pathologist. Minimum qualifications include the D.V.M. and Ph.D. degrees from recognized institutions, membership or eligible for membership in the American College of Veterinary Pathologists, and some publications on original research or direct experience in conducting laboratory diagnosis. Duties of the appointee will be to participate in the operation of a modern diagnostic laboratory, to conduct individual and collaborative research projects, and to assist undergraduate and graduate students by teaching and advising. Compensation levels are fully competitive. Applicants should submit curriculum vitae, including an expression of previous employment, reprints of recent publications and names and addresses of three references to: **Chairman, Search Committee, Department of Veterinary Sciences, College of Agriculture, Box 3354 University Station, Laramie, Wyoming 82071.** The closing date is 15 December 1985. *The University of Wyoming is an Affirmative Action/Equal Opportunity Employer.*

PRIZE

THE DAVID STARR JORDAN PRIZE FOR INNOVATIVE CONTRIBUTIONS TO THE STUDY OF EVOLUTION, ECOLOGY, POPULATION OR ORGANISMAL BIOLOGY

Cornell, Indiana, and Stanford Universities have established a joint endowment to fund a prize in honor of David Starr Jordan, a scientist, educator, and institution builder, with important ties to each of these institutions. The prize will be international in scope and presented approximately every 3 years to a young scientist (less than 40 years of age) who is making novel, innovative contributions in one or more of the areas of Jordan's interest: evolution, ecology, population or organismal biology.

The intent of this prize is to recognize young scientists who are making research contributions likely to redirect the principal focus of their fields. In addition to a cash award, the recipient will receive a specially designed commemorative medal and will be required to attend an awards ceremony, visit each of the institutions, and give scholarly presentations of her/his work. The selection of the prize winner will be made by a committee composed of representatives from each of the three institutions.

The first David Starr Jordan Award will carry a prize of \$15,000 and will be announced in late 1986. Nomination forms are available from: **Dr. Rollin C. Richmond, Department of Biology, Indiana University, Bloomington, Ind. 47405.** Nominations must be received prior to 1 April 1986.

COURSE

MOLECULAR ENDOCRINOLOGY AND TECHNIQUES FOR HORMONE ACTION 16 to 21 February 1986

This course will consist of lectures in methodology with comprehensive syllabus covering receptors, gene transcription, mRNA and protein synthesis, recombinant DNA, protein hormones, and cyclic nucleotides.

Co-directors: W. T. Schrader and B. W. O'Malley. Fee: \$365 (\$245—fellow).

For further information, contact:

Bonnie Cuthbert
Department of Cell Biology
Baylor College of Medicine
Houston, Texas 77030
Telephone: 713-799-6200
Deadline—17 January 1986

CONFERENCE

The New York Academy of Sciences Conference on CELL AND TISSUE TRANSPLANTATION INTO THE ADULT BRAIN 2 to 4 April 1986

This conference deals with two main themes of the integration of the mature brain with transplanted cells and tissues as a means of replacing lost functional contacts. First, cellular and molecular mechanisms are proposed for the interactions of host and donor neuronal and glial cells. Second, recovery of function due to neurodegenerative diseases, injury, or aging is covered with reports from Parkinson's patients and MPTP treated monkeys.

There will be two contributed poster sessions. Abstracts related to either cellular and molecular mechanisms or animal models of neurodegenerative diseases are welcome. The deadline for submission of abstracts is 3 January 1986. The abstracts should include the name of the author(s), institution, and a 200-word summary of the work to be presented. Send abstracts to: **Dr. Efrain C. Azmitia, Department of Biology, New York University, 1009 Main Building, Washington Square East, New York, N.Y. 10003.** After review, a selected number of these short manuscripts, as well as those of the invited speakers, will be published as a volume of the *Annals of The New York Academy of Sciences*.

Conference cochairmen: Efrain C. Azmitia, Ph.D., New York University, and Anders Bjorklund, University of Lund, Sweden.

For program or registration information, contact:

Conference Department
The New York Academy of Sciences
2 East 63 Street
New York, New York 10021

NATIONAL SCIENCE FOUNDATION (NSF)

NSF's Office of College Science Instrumentation is seeking qualified applicants for two positions of Associate Program Director for the College Science Instrumentation Program. These positions will be filled on a rotational or temporary basis. The positions are excepted from the competitive civil service and salaries range from \$40,000 to \$60,000 per annum. The program provides support to improve undergraduate science and engineering education by funding scientific instrumentation for use in the laboratory or in field work. The incumbents of the positions will be responsible for or will assist in program development and administration, review and evaluation of proposals, monitoring resulting grants or contracts, and representing the office and program within NSF and in the science education and related communities. Applicants should have a Ph.D. in a scientific or engineering discipline (physics or electrical/computing engineering, is desired). At least four years of experience in college-level teaching, evidence of research or related scholarly accomplishment, and be current in use of modern scientific instrumentation. For technical information about this position contact **Dr. Robert F. Watson, Office of College Science Instrumentation, on 202/357-9644**. For information on how to apply call **Catherine Handle on 202/357-7840, Personnel Administration Branch**. Hearing impaired individuals should call: **TDD 202/357-7492**. NSF is an Equal Opportunity Employer.

LOUISIANA STATE UNIVERSITY (LSU) MEDICAL CENTER DEAN OF THE SCHOOL OF MEDICINE IN NEW ORLEANS

The Louisiana State University Medical Center is seeking applicants and nominations for the position of dean of the School of Medicine in New Orleans. The dean is the chief administrative officer of the School of Medicine and is responsible to the chancellor of the LSU Medical Center for the administration of all educational, research, and clinical programs conducted by the School of Medicine in New Orleans.

The School enrolls approximately 700 medical students, 390 house officers, 75 graduate students, and conducts continuing medical education programs. Clinical service programs are conducted at Charity Hospital, New Orleans Veterans Administration Medical Center, and several affiliated institutions.

Louisiana State University is the major state institution of higher learning with seven campuses and 55,000 students. The School of Medicine in New Orleans is one of six professional schools in the LSU Medical Center including the Schools of Medicine in Shreveport, Dentistry, Nursing, Allied Health Professions, and Graduate Studies.

Applicants should have an M.D. or Ph.D. degree and considerable academic administrative experience. Applications and nominations should include curriculum vitae, the names of three references, and should be submitted by 1 January 1986 to:

FRED ALLISON, Jr., M.D., Chairman
Dean Search Committee
LSU School of Medicine in New Orleans
Department of Medicine
1542 Tulane Avenue
New Orleans, La. 70112

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

DIRECTOR BOSTON UNIVERSITY MARINE PROGRAM

Applications are invited for the position of Director of the Boston University Marine Program (BUMP). This program is part of the Department of Biology and is centered at the Marine Biological Laboratory in Woods Hole with four Biology Faculty in residence. Faculty in Boston help in the teaching of both undergraduate and graduate students. The program will add two or three new faculty members and expand facilities over the next five years, paralleling growth in all areas of science at Boston University. Candidates should be leaders in their field of Marine Biology and able to provide innovative direction for the expansion of the program.

Applications, including three names of reference, should be sent to:

Chair
Boston University Marine
Program Search Committee
Department of Biology
2 Cummington Street
Boston, MA 02215

Application deadline is January 1, 1986.
Boston University is an affirmative action equal opportunity employer.

MOLECULAR BIOLOGY

The Pharmaceutical Research and Development division of Upjohn, located in Kalamazoo, Michigan, is expanding and seeking Research Associates for the Molecular Biology Research Unit.

Molecular Biologist - Requires experience in basic Recombinant DNA techniques with experience in the construction of vectors and in the development of gene transfer methods in plants highly desirable.

Plant Biologist - Backgrounds in plant tissue culture and in regeneration methods are necessary.

Both positions require demonstrated ability to do research and work independently. This research program will involve interaction with Upjohn's Biotechnology group, Experimental Plant Genetics staff and the Upjohn subsidiary, Asgrow Seed Company. Applicants having a B.S. or an M.S. degree in plant biology, molecular biology or related area are encouraged to apply.

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 an excellent salary, commensurate with experience and an outstanding 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. Please refer to ad number 18220-A when calling.

Upjohn

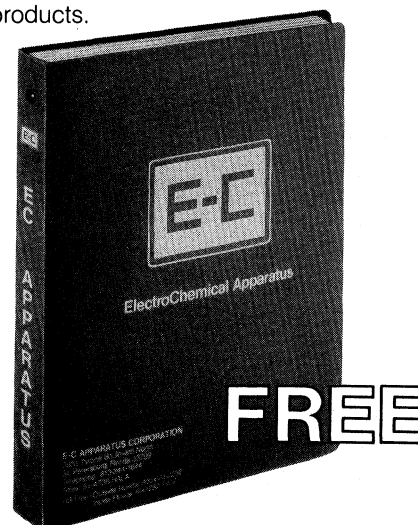
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SYMPOSIUM

INTERNATIONAL SPINA BIFIDA RESEARCH SYMPOSIUM. Investigators with basic, applied, and clinical research projects dealing with causes, methods of treatment, or detection of spina bifida or related conditions are encouraged to submit abstracts to the International Spina Bifida Research Symposium to be held in Detroit, Michigan, on 6 June 1986. For further information, contact: C. J. Sherry, Ph.D., P.O. Box 5502, Bryan, Texas 77805.

WORKSHOP

RESEARCH METHODS IN SOMATIC CELL GENETICS

An NCI-sponsored workshop course conducted by the Eleanor Roosevelt Institute for Cancer Research in Denver, Colorado, 7 to 22 July 1986, in key procedures which utilize a combination of somatic cell and molecular genetics for the cloning and analysis of function of mammalian genes. Laboratory exercises will include isolation of somatic cell mutants, somatic cell hybridization for complementation and dominance analysis, DNA mediated gene transfer and preparation of cDNA and genomic DNA libraries. These exercises are designed to provide the necessary introduction in genetic technology for professional research workers wishing to apply this technology to their ongoing research program. Those with interests in research in malignancy are particularly encouraged to apply. A per diem will be awarded to help with living expenses during the course. Applicants should submit curriculum vitae and a short paragraph describing research interests and the expected contributions of this course to their program by 1 January 1986 to: Dr. Michael Sinensky, Program Director, Somatic Cell and Molecular Genetics Workshop, 4200 East Ninth Avenue, B-129, Denver, Colorado 80262. *U.S. citizens only.*

ASSISTANTSHIPS

M.S. GRADUATE RESEARCH ASSISTANTSHIPS in: (i) rangeland modeling; (ii) plant physiological ecology; (iii) wildlife ecology or behavior; (iv) forest ecology. Assistantships include salary, out-of-state tuition waiver, and most of the credit fee costs. Contact: G. F. Gifford, Department of Range Wildlife and Forestry, University of Nevada, 1000 Valley Road, Reno, Nev. 89512. Application deadlines: modeling is 31 December 1985; all others are 15 February 1986. *An Affirmative Action/Equal Opportunity Employer.*

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIPS. Research training in lipid metabolism related to atherosclerosis. Traineeships supported by an NHLBI grant are currently available at the Hormel Institute, a unit of the Graduate School, University of Minnesota. Basic, multidisciplinary research related to atherosclerosis with emphasis on membrane structure and function includes: polyunsaturated fatty acids in nutrition, metabolism and disease; control of mitochondrial function; ionophore catalyzed cation transport; analysis and biosynthesis of prostaglandins and related compounds; inhibition of platelet aggregation; metabolism of furan fatty acids; phospholipid deacylation/reacylation and LDL uptake by endothelial cells; NMR of lysophospholipid and cholesterol interactions; carbohydrate and lipid metabolism in isolated cell systems related to development/prevention of obesity; regulation of lipases and phospholipases; the role of membrane phospholipids in signal transduction and cell injury. Faculty members include Drs. W. J. Bauman, H. L. Brockman, M. P. Cleary, R. T. Holman, D. R. Pfeiffer, O. S. Privett, H. Schlenk and H. H. O. Schmid. Beginning salaries are substantially above NIH scale with complete fringe benefit package. Appointments are annually renewable. Applicants must be U.S. citizens, non-citizen nationals, or permanent U.S. residents with a Ph.D., M.D., or equivalent degree. Applications should include curriculum vitae, list of publications, and the names of three references. Send curriculum vitae to: Dr. Margot P. Cleary, The Hormel Institute, University of Minnesota, 801 16th Avenue, NE, Austin, Minn. 55912. Telephone: 507-433-8804. *The University of Minnesota is an Equal Opportunity Educator and Employer and specifically invites and encourages women and minority applicants.*

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIP—An innovative project area with a research group dealing with isolation and characterization of unique human secretory proteins having a variety of important biological functions, among which are included protein-lipid interactions. Candidates should have appropriate biochemistry, cell biology, and applied immunology experience at the Ph.D. level. Submit résumé and names of three references to: G. I. Research Unit, Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, Ohio 44106. *An Equal Opportunity Employer.*

POSTDOCTORAL FELLOWSHIP (2 to 3 years), available 1 January 1986 to join a group at the University of Maryland working on the expression of apical proteins in mammary epithelial cells. Molecular biologist required with training in recombinant DNA and transfection techniques. Funds available for travel to the Middlesex Hospital Medical School, London, United Kingdom, to collaborate with Professor R. K. Craig and colleagues. Starting salary: approximately \$18,000. Applications, including three references to: Dr. Ian H. Mather, Department of Animal Sciences, University of Maryland, College Park, Md. 20742. *An Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL FELLOWSHIPS IN IMMUNOLOGY—Newly available through late NIH funding, for M.D.'s or Ph.D.'s starting 1 July 1986, in a combined Immunology/Allergy/Rheumatology Unit. Research training emphasizes human immunology including IgG receptor structure and function, cellular and genetic regulation of autoantibodies and cryoglobulins, and complement biology, plus opportunities for broad clinical experience in areas of choice. Contact: Dr. John P. Leddy, University of Rochester Medical Center, Box 695, Rochester, N.Y. 14642. Telephone: 716-275-2891.

NEUROPATHOLOGY FELLOWSHIP in academic department with excellent opportunities for research in ultrastructure, tissue culture, flow cytometry image analysis, and molecular biology. Eligible candidates must wish to pursue an academic career, possess excellent medical school credentials, and have a minimum of 3 years of training in pathology, preferably with 1 year in neuropathology. We offer excellent salary and benefits. Please send curriculum vitae to: A. Hirano, M.D., Montefiore Medical Center, 111 East 210 Street, Bronx, New York 10467. *Equal Opportunity Employer, M/F.*

PERINATAL PHYSIOLOGY FELLOWSHIP—Postdoctoral fellowships are available starting January 1986 and July 1986 to study maternal and fetal responses to renal hypertension, vascular disease, and intrauterine growth retardation. Experience in cardiovascular physiology/pharmacology or endocrinology preferred. Funded by NIH training grant in perinatal physiology. Submit curriculum vitae and the names of three references to: Kenneth E. Clark, Ph.D., A. E. Seeds Perinatal Research Center, Department of Obstetrics and Gynecology, University of Cincinnati, Cincinnati, OH 45267-0526. *Equal Opportunity/Affirmative Action Employer.*

IMPERIAL CANCER RESEARCH FUND Research Fellowship

A postdoctoral 3-year appointment is available to work with Dr. N. Jones on projects investigating the role of Adenovirus E1A proteins in gene regulation and oncogenic transformation. Applicants with experience in molecular biology and/or cell biology are preferred.

Salary range: £10,285 to £12,570, depending upon qualifications and experience.

Please send curriculum vitae and the names and addresses of three referees to: S. M. Hurley, Imperial Cancer Research Fund, Lincoln's Inn Fields, London, WC2A 3PX, England, quoting reference: 7(8).

PREDOCTORAL FELLOWSHIPS. Competitive fellowships are available in the areas of behavior, cell and developmental biology, ecology, genetics, physiology, and systematics/morphology. Included are 12-month stipends and waivers of out-of-state tuition. Research and teaching assistantships also are available. The faculty consists of 35 members with a wide range of research programs. Two faculty are NIH RCDA recipients; another is recipient of a Presidential Young Investigator Award. Further information, contact: The Department of Zoology, Attention: Graduate Secretary, Arizona State University, Tempe, Arizona 85287. *Arizona State University vigorously pursues Affirmative Action and Equal Opportunity in its employment, activities, and programs.*

FELLOWSHIPS

GRADUATE FELLOWSHIPS CENTER FOR THE STUDY OF EVOLUTION AND THE ORIGIN OF LIFE (CSEOL) University of California, Los Angeles (UCLA)

CSEOL invites applications for two first-year predoctoral fellowships for 1986-1987. Stipends are each \$9,000 for 9 months with no teaching or other duties. Fellows are included in a select group of graduate students invited to interact with Center faculty in a weekly dinner/seminar/discussion series. Applicants should be planning to carry out thesis research under the supervision of a CSEOL faculty member and in a subject area relating to evolution, broadly construed—of the solar system, of earth, of the environment, of life, of humans. Faculty are members of the UCLA Departments of Anthropology, Astronomy, Atmospheric Sciences, Biology, Chemistry and Biochemistry, Computer Science, Earth and Space Sciences, Geography, and Microbiology; the School of Medicine (Anatomy; Microbiology and Immunology; Physiology; Biobehavioral Sciences); and the School of Public Health. Fellowship applicants must apply by 15 January 1986, both to an appropriate academic department and to CSEOL. For a brochure, application forms, and a list of CSEOL members, contact:

CSEOL Fellows Committee
Geology Building, Room 5687
University of California, Los Angeles
Los Angeles, Calif. 90024
Telephone: 213-825-1170

PROGRAMS

CAREER CHANGE OPPORTUNITY

This unique program offers the candidate with an earned doctorate in the sciences the opportunity to obtain a doctor of optometry (O.D.) degree in two calendar years. Employment opportunities exist in private practice, industry, education, and research. Contact: Ph.D.-O.D. Program Director, Admissions Office, The New England College of Optometry, Room 15, 424 Beacon Street, Boston, Mass. 02115.

GRADUATE PROGRAMS IN LIFE SCIENCES. Programs provide research opportunities leading to master's and Ph.D. degrees. Areas include: biochemistry; developmental, cellular, molecular biology; behavioral, physiological, and community ecology; endocrinology; genetics; immunology; parasitology; molecular genetics; plant physiology; systematics; virology; medical technology. Stipends of \$7000 to \$9000 available. Write to: Chair, Department of Life Sciences, Indiana State University, Terre Haute, Ind. 47809.

POSTDOCTORAL TRAINING PROGRAM IN REPRODUCTIVE ENDOCRINOLOGY

NIH-supported, interdepartmental training program for those wishing to obtain experience in application of biochemical techniques to the study of reproductive hormones and diseases. Special areas of faculty interest include mechanisms of action of peptide hormones, receptor biochemistry, structure-function studies on glycoprotein hormones, hormonal regulation of human endometrium, effects of prolactin, and related topics. Candidates with doctoral degrees (M.D., Ph.D., and D.V.M.) and a strong preparation in biochemistry preferred. Applicants (U.S. citizen or permanent residents only) should submit résumé, graduate transcript, and three letters of recommendation to: Dr. L. E. Reichert, Director, Training Program in Reproductive Endocrinology, Department of Biochemistry, Albany Medical College, Albany, New York 12208.

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GRADUATE TRAINING

POSTDOCTORAL RESEARCH TRAINING FELLOWSHIPS in endocrinology, metabolism, and diabetes for M.D. or Ph.D. graduates are available at Emory University School of Medicine utilizing ten training faculty in six basic and clinical departments. *Must be U.S. national or permanent resident.* M.D. applicants must have U.S. residency experience. Send curriculum vitae, statement of research and career objectives, and two letters of reference by 15 February 1986 to: Lawrence S. Phillips, M.D., Program Director, Emory University School of Medicine, 69 Butler Street, Atlanta, Ga. 30303. *An Equal Opportunity Employer.*

INTERNATIONAL RESEARCH FELLOWSHIP OPPORTUNITIES for U.S. and Foreign Postdoctoral Scientists

*** SENIOR INTERNATIONAL FELLOWSHIPS**

These fellowships offer opportunities to U.S. biomedical, behavioral, or health scientists to conduct research in a foreign institution. The program is for scientists who have established themselves in their chosen career in the United States and whose professional stature is well-recognized by their peers and institutional officials.

The purpose of this program is to enhance the exchange of ideas and information about the latest advances in the health sciences, both basic and clinical, and to permit U.S. scientists to participate abroad in ongoing study or research in the health sciences.

Fellowships are awarded for a period of 3 to 12 months and provide stipend, travel, and living allowance.

*** INTERNATIONAL RESEARCH FELLOWSHIPS**

These fellowships offer opportunities to foreign scientists in the formative stage of their research career to extend their research experience in a U.S. laboratory. Selections are first made by the Nominating Committee in a participating country or region. Over 50 countries or regions in the Americas, Africa, Asia and the Far East, Australia, Europe and New Zealand participate in the program.

The purpose of this program is to forge relationships between distinguished scientists in the United States and qualified scientists in other countries in order to solve health-related problems of mutual interest.

Fellowships are awarded for a minimum of 12 months and provide stipend, travel, and institutional allowance.

*** FOREIGN-SUPPORTED FELLOWSHIPS**

These fellowships for U.S. scientists are supported by specific foreign countries. They provide opportunities for scientists to conduct collaborative research in the country that provides funding.

The purpose of this program is to enhance the exchange of research experience and information in the biomedical, behavioral, and health sciences. The maximum period of support for all programs is 1 year and the minimum period of support varies with each program.

Participating countries are: FINLAND, FRANCE (CNRS and INSERM), FEDERAL REPUBLIC OF GERMANY, IRELAND, NORWAY, SWEDEN, SWITZERLAND, and TAIWAN.

**** HEALTH SCIENTIST EXCHANGES**

These fellowships for U.S. scientists support short-term (2-12 weeks) visits to HUNGARY, POLAND, ROMANIA, YUGOSLAVIA, or the SOVIET UNION.

The purpose of this program is to conduct collaborative activities in one of the health sciences or the health-related fields that are of mutual benefit to the United States and the participating country. Priority is given to visits designed to strengthen or expand ongoing collaborative relationships or to explore prospects for long-term cooperation.

The financial provisions include round-trip travel and in-country costs.

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Requests for additional information should be sent to:

*International Research and Awards Branch

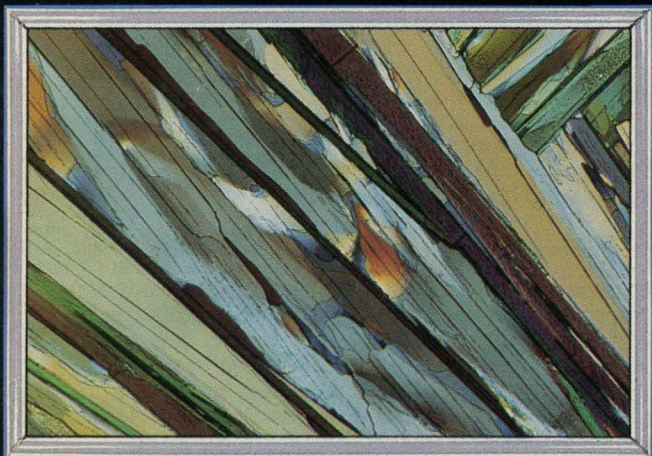
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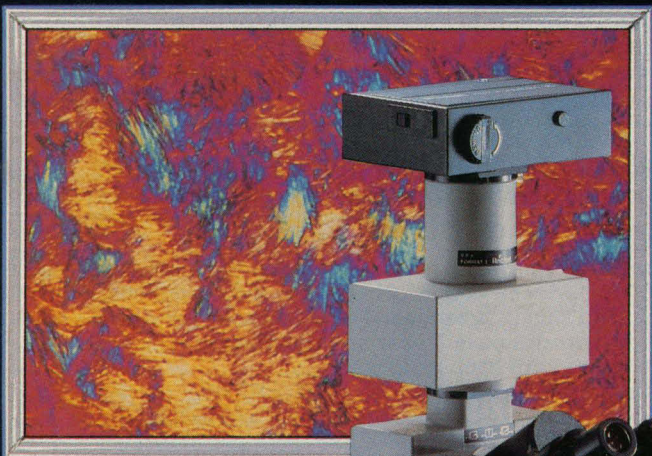
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