

two college courses in which creationist views are examined and accounts of creationist efforts and responses thereto in Iowa, Kentucky, and Georgia, with documents bearing on the Arkansas case reprinted as appendixes.—K.L.

**Storm Over Biology.** Essays on Science, Sentiment, and Public Policy. BERNARD D. DAVIS. Prometheus, Buffalo, NY, 1986. vi, 324 pp. \$22.95.

This volume reprints, with some alterations and retrospective commentary by the author, some 40 editorials, book reviews, and other writings the unifying theme of which is identified by the author as "dedication to the objectivity of science in deepening our insights into reality, and to the value of incorporating the resulting insights in the formation of public policies." On the responses to these writings when originally published the author notes that he has sometimes been made to feel that his position was that of "membership in a party of one." Among the topics addressed are sociobiology, human behavioral genetics, and recombinant DNA research, the validity of which enterprises the author defends against their critics. One section of the volume presents critiques of affirmative action policies and practices in medical schools, including a previously unpublished account of a controversy at Harvard over the awarding of a degree to a black student whose qualifications were in question.—K.L.

## Books Received

**Applied Superconductivity, Metallurgy, and Physics of Titanium Alloys.** Vol. 2, Applications. E. W. Collings. Plenum, New York, 1986. xviii, 678 pp., illus. \$87.50. The International Cryogenics Monograph Series.

**Archaeology at Cerros, Belize, Central America.** Vol. 1, An Interim Report. Robin A. Robertson and David A. Freidel, Eds. Southern Methodist University Press, Dallas, TX, 1986. xxiv, 173 pp., illus. Paper, \$19.95.

**Articular Cartilage Biochemistry.** Klaus E. Kuettner, Rudolf Schleyerbach, and Vincent C. Hascall, Eds. Raven, New York, 1986. xxii, 456 pp., illus. \$51. From a workshop conference, Wiesbaden, FRG, Sept. 1985.

**Aspen.** Ecology and Management in the Western United States. Norbert V. DeByle and Robert P. Winkler, Eds. United States Department of Agriculture Forest Service, Fort Collins, CO, 1985 (available from the Superintendent of Documents, Washington, DC, stock no. 001-001-00617-3). vi, 283 pp., illus. Paper, \$8.50. General Technical Report RM-119.

**Astronomy and Astronautics.** An Enthusiast's Guide to Books and Periodicals. Andy Lusi. Facts on File, New York, 1986. xx, 292 pp. \$24.95.

**Atomic Transport and Defects in Metals by Neutron Scattering.** C. Janot *et al.*, Eds. Springer-Verlag, New York, 1986. x, 241 pp., illus. \$39. Springer Proceedings in Physics, vol. 10. From a workshop, Jülich, FRG, Oct. 1985.

**Dictionary of Pharmacy.** Julian H. Fincher *et al.*, Eds. University of South Carolina Press, Columbia, 1986. x, 374 pp. \$24.95.

**Disaster Policy Implementation.** Managing Pro-

grams under Shared Governance. Peter J. May and Walter Williams. Plenum, New York, 1986. xii, 198 pp., illus. \$29.50. Disaster Research in Practice.

**The Discovery of the World.** Maps of the Earth and the Cosmos. David M. Stewart Museum, Montreal, 1985 (distributor, University of Chicago Press, Chicago). 87 pp. \$60; paper, \$25.

**Ecology of the Wet-Dry Tropics.** M. G. Ridpath and L. K. Corbett, Eds. Ecological Society of Australia, [no place], 1985 (distributor, Blackwell Scientific, Brunswick, Australia). viii, 333 pp., illus. Paper, \$A20. Proceedings of the Ecological Society of Australia, vol. 13. From a symposium, Darwin, Australia, May 1983.

**The Ecology of Woodland Rodents.** Bank Voles and Wood Mice. J. R. Flowerdew, J. Gurnell, and J. H. W. Gipps, Eds. Clarendon (Oxford University Press), New York, 1985. xx, 418 pp., illus. \$79. Symposia of the Zoological Society of London, no. 55. From a symposium, London, Nov. 1984.

**Electrical Double Layers in Biology.** Martin Blank, Ed. Plenum, New York, 1986. viii, 319 pp., illus. \$55. From a symposium, Toronto, May 1985.

**Electron Energy-Loss Spectroscopy.** In the Electron Microscope. R. F. Egerton. Plenum, New York, 1986. xii, 410 pp., illus. \$59.50.

**Electrophoresis.** Theory, Techniques, and Biochemical and Clinical Applications. Anthony T. Andrews. 2nd ed. Clarendon (Oxford University Press), New York, 1986. xvi, 452 pp., illus. \$49.95; paper, \$29.95. Monographs on Physical Biochemistry.

**Health Policies, Health Politics.** The British and American Experience 1911-1965. Daniel M. Fox. Princeton University Press, Princeton, NJ, 1986. xii, 235 pp. \$25.

**Health Psychology.** A Psychobiological Perspective. Michael Feuerstein, Elise E. Labbé, and Andrzej R. Kuczmarski. Plenum, New York, 1986. xvi, 511 pp., illus. \$29.50.

**Heating and Compression of Thermonuclear Targets by Laser Beam.** N. G. Basov *et al.* Cambridge University Press, New York, 1986. x, 476 pp., illus. \$89.50. Translated from the Russian edition (Moscow, 1982) by R. Dragila and B. Luther-Davies.

**Heavy Ion Collisions.** Paul Bonche *et al.*, Eds. Plenum, New York, 1986. viii, 409 pp., illus. \$65. NATO Advanced Science Institutes Series B, vol. 130. From an institute, Cargèse, France, Sept. 1984.

**High Energy Physics 1985.** Proceedings of the Yale Theoretical Advanced Study Institute (New Haven, CT, June 1985). Mark J. Bowick and Feza Gürsey, Eds. World Scientific, Singapore, 1986 (U.S. distributor, Taylor and Francis, Philadelphia). xvi, 976 pp., illus. \$90; paper, \$33.

**The History of Scurvy and Vitamin C.** Kenneth J. Carpenter. Cambridge University Press, New York, 1986. viii, 288 pp., illus. \$39.50.

**More About Egyptian Hieroglyphs.** A Simplified Grammar of Middle Egyptian. Barbara Watterson. Scottish Academic Press, Edinburgh, 1986 (U.S. distributor, Columbia University Press, New York). x, 195 pp., illus. \$15.

**Native and Cultivated Conifers of Northeastern North America.** A Guide. Edward A. Cope. Illustrated by Bente Starcke King. Comstock (Cornell University Press), Ithaca, NY, 1986. 231 pp. \$39.95; paper, \$17.95.

**A Natural Language Interface for Computer-Aided Design.** Tariq Samad. Kluwer, Boston, 1986. xii, 188 pp., illus. \$38.95. Kluwer International Series in Engineering and Computer Science.

**The Neurobiology of Down Syndrome.** Charles J. Epstein, Ed. Raven, New York, 1986. xiv, 258 pp., illus. \$46.50. From a conference, New York, Nov. 1985.

**Neutrino Mass and Low Energy Weak Interactions.** Telemark, 1984. Vernon Barger and David Cline, Eds. World Scientific, Philadelphia, 1985. x, 416 pp., illus. \$46.

**The New Genetics and Clinical Practice.** D. J. Weatherall. 2nd ed. Oxford University Press, New York, 1985. viii, 206 pp., illus. Paper, \$15.95. Oxford Medical Publications.

**Physics of Thin Films.** Ludmila Eckertová. 2nd ed. SNTL, Prague, and Plenum, New York, 1986. 340 pp., illus. \$39.50. Translated by the author.

**Phytoplankton Ecology.** Structure, Function and Fluctuation. Graham P. Harris. Chapman and Hall (Methuen), New York, 1986. xii, 384 pp., illus. \$45.

**Pintupi Country, Pintupi Self.** Sentiment, Place, and Politics among Western Desert Aborigines. Fred R. Myers. Smithsonian Institution Press, Washington, DC, and Australian Institute of Aboriginal Studies, Canberra, 1986. 334 pp., illus. \$27.50. Smithsonian Series in Ethnographic Inquiry.

**Plant Breeding Systems.** A. J. Richards. Allen and

Unwin, Winchester, MA, 1986. xiv, 529 pp., illus. \$75; paper, \$34.95.

**Plantation Silviculture in Temperate Regions.** With Special Reference to the British Isles. Peter S. Savill and Julian Evans. Clarendon (Oxford University Press), New York, 1986. viii, 246 pp., illus. \$45.

**The Poisonous Cloud.** Chemical Warfare in the First World War. L. F. Haber. Clarendon (Oxford University Press), New York, 1986. xiv, 415 pp., illus. \$59.

**Regulation of Hepatic Metabolism.** Intra- and Intercellular Compartmentation. Ronald G. Thurman, Frederick C. Kauffman, and Kurt Jungermann, Eds. Plenum, New York, 1986. xx, 489 pp., illus. \$69.50.

**Regulation of Matrix Accumulation.** Robert P. Mecham, Ed. Academic Press, Orlando, FL, 1986. xiv, 461 pp., illus. \$69.50. Biology of Extracellular Matrix.

**Research in Soviet Social Psychology.** L. H. Strickland, V. P. Trusov, and E. Lockwood, Eds. Springer-Verlag, New York, 1986. x, 99 pp., illus. Paper, \$26.10. Recent Research in Psychology.

**The Retina.** A Model for Cell Biology Studies. Part 2. Ruben Adler and Debora Farber, Eds. Academic Press, Orlando, FL, 1986. xiv, 348 pp., illus. \$60. Cellular Neurobiology.

**The Rise of Statistical Thinking 1820-1900.** Theodore M. Porter. Princeton University Press, Princeton, NJ, 1986. xii, 334 pp. \$35.

**Risk Acceptability According to the Social Sciences.** Mary Douglas. Russell Sage Foundation, New York, 1986 (distributor, Basic Books, New York). vi, 115 pp. Paper, \$6.95. Social Research Perspectives, 11.

**Roles of Organic Matter in Sediment Diagenesis.** Donald L. Gautier, Ed. Society of Economic Paleontologists and Mineralogists, Tulsa, OK, 1986. vi, 203 pp., illus. \$37.50. Special Publication, no. 38. From a symposium, San Jose, CA, 1984.

**Superstrings, Supergravity and Unified Theories.** G. Furlan *et al.*, Eds. World Scientific, Singapore, 1986 (U.S. distributor, Taylor and Francis, Philadelphia). x, 593 pp., illus. \$74; paper, \$37. International Center for Theoretical Physics Series in Theoretical Physics, vol. 2. From a workshop, Trieste, Italy, June 1985.

**Supplement to the Handbook of Middle American Indians.** Victoria Reifler Bricker, Ed. Vol. 4, Ethnohistory. Ronald Spores, Ed. with the assistance of Patricia A. Andrews. University of Texas Press, Austin, 1986. viii, 232 pp., illus. \$40.

**Symposium on the Foundations of Modern Physics.** (Joensuu, Finland, June 1985.) 50 Years of the Einstein-Podolsky-Rosen Gedankenexperiment. Pekka Lahti and Peter Mittelstaedt, Eds. World Scientific, Singapore, 1985 (U.S. distributor, Taylor and Francis, Philadelphia). xiv, 718 pp., illus. \$81.

**Systems Analysis Applied to Water and Related Land Resources.** L. Valadares Tavares and J. Evaristo Da Silva, Eds. Published for the International Federation of Automatic Control by Pergamon, New York, 1986. xii, 288 pp., illus. \$61. IFAC Proceedings Series, 1986, no. 4. From a conference, Lisbon, Oct. 1985.

**Take Heart.** The Life and Prescription for Living of Dr. Paul Dudley White. Oglesby Paul. Francis A. Countway Library of Medicine, Boston, 1986 (distributor, Harvard University Press, Cambridge, MA). xx, 315 pp., illus. \$18.95.

**Theory and Applications of Cellular Automata.** (Including Selected Papers 1983-1986). Stephen Wolfram. World Scientific, Singapore, 1986 (U.S. distributor, Taylor and Francis, Philadelphia). x, 560 pp., illus. \$65; paper, \$28. Advanced Series on Complex Systems, vol. 1.

**Theory and Applications of the Poincaré Group.** Y. S. Kim and Marilyn E. Noz. Reidel, Dordrecht, 1986 (U.S. distributor, Kluwer, Hingham, MA). xvi, 331 pp., illus. \$73. Fundamental Theories of Physics.

**Theory and Detection of Magnetic Monopoles in Gauge Theories.** A Collected Set of Lecture Notes. Neil Craigie *et al.* World Scientific, Singapore, 1986 (U.S. distributor, Taylor and Francis, Philadelphia). xii, 499 pp., illus. \$75; paper, \$37.

**The Theory of Database Concurrency Control.** Christos Papadimitriou. Computer Science Press, Rockville, MD, 1986. xii, 239 pp., illus. \$39.95.

**Thermodynamic Data for Biochemistry and Biotechnology.** Hans-Jürgen Hinz, Ed. Springer-Verlag, New York, 1986. xvi, 456 pp., illus. \$142.

**Unravelling Animal Behaviour.** Marian Stamp Dawkins. Longman, Essex, England, 1986 (U.S. distributor, Wiley, New York). x, 161 pp., illus. Paper, \$16.95.

**Urban Runoff Pollution.** Harry C. Torno, Jiri Marsalek, and Michel Desbordes, Eds. Springer-Verlag, New York, 1986. xii, 893 pp., illus. \$132. NATO Advanced Science Institutes Series G, vol. 10. From a workshop, Montpellier, France, Aug. 1985.

### Compact Research Laser

The Q LX1000 Fiber Optic Laser Light Source is a compact laboratory instrument designed for applications at 1300 and 1550 nm. It features extended digital modulation capability to greater than 1 Gbit/sec (700 MHz, analog) with power stability better



than 1% per hour. An optional companion receiver can accept data at rates up to 700 Gbit/sec (350 MHz, analog). The laser's components incorporate laser-welded fiber pigtails, ensuring stable output over time and over temperature extremes. Lasertron. Circle 585.

### Multifrequency Phase, Modulation Fluorometer

The GREG-200 operates both as a conventional steady-state analog fluorometer and as a multifrequency phase and modulation fluorometer for time-resolved fluorescence. It can measure lifetimes of a few picoseconds to milliseconds. A dedicated personal computer resolves complex decay processes; a multiexponential decay can be easily solved, and even a nonexponential

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decay can be analyzed. Determinations of differential phase and modulation ratio are simultaneously used to determine the rotational behavior of fluorescent molecules. Rotational movements of isotropic, anisotropic, and restricted rotators may also be analyzed. Phase- and modulation-resolved spectra allow the separation of spectral components from a mixture of several emitting species with overlapping bonds. Time-resolved spectra may be obtained and a three-dimensional representation of the spectra can be displayed with the time values on the z-axis. I.S.S. Circle 586.

### Small Freezers

The LABMATE-85 series is composed of two freezers sized for use in a laboratory. Model 101 is a 1-cubic-foot upright freezer that fits on a standard bench, and model 303 is a 3-cubic-foot chest freezer. Both are quiet, and both operate at  $-85^{\circ}\text{C}$ . With a LABMATE-85, a researcher has a freezer conveniently located in the laboratory and avoids sharing freezer space with other labs. This minimizes the amount of time heat-sensitive materials are exposed and reduces the danger of contamination. Rush Enterprises. Circle 590.

### Fiber-Optic Illumination Systems

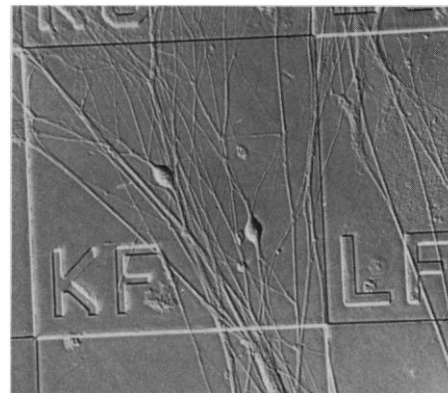
Flexilux is a line of modular, cold-light illumination systems. These systems adapt to most stereomicroscopes and macroscopes, and some versions are designed for photography, with built-in diaphragms to reduce light intensity without altering the color temperature. All systems are compact and contain integral heat-absorbing filters. H&R Optical Systems. Circle 587.

### Automated Spectrometer

The Gemini FT NMR is an automated spectrometer designed for proton and carbon experiments. Its menu-driven user interface enables even novice users to obtain results to complex nuclear magnetic resonance problems quickly and easily. Other aids to the user include extensive self-diagnostic capabilities, many automated NMR experiments (including HETCOR, HC APT, and DEPT), and the option to type commands rather than choosing from the menu. The Gemini FT NMR may be linked with other Gemini spectrometers, as well as with VXR spectrometers and DEC VAX computers. Varian Associates. Circle 612.

### Cultured Cells Identifier Stamp

The BB-Press contains a die microetched onto a silicon wafer. The tool allows the user to "heat stamp" an ordinary 35-mm plastic petri dish with a 26 by 26 cell grid measuring only 8 mm on each side. Each resulting cell within the grid is roughly  $300\text{ }\mu\text{m}$  square and has an identifier. For example, in the photograph, KF indicates column K and row F. Petri dishes so marked are suited for developmental studies, serial microinjection of a large population of cells, and other



procedures involving cells and a microscope. Marking a dish with the BB-Press takes less than 2 minutes, and the Press will last through thousands of stampings. World Precision Instruments. Circle 583.

### Literature

*Amino Acid and Peptide Catalog* includes amino acids and their derivatives, reagents for solid-phase peptide synthesis, and biologically active peptides. Chemical Dynamics. Circle 594.

*Directory of Online Databases* contains descriptions of 3169 databases available from 486 online services worldwide. The databases are indexed six ways. The quarterly publication costs \$95 for a 1-year subscription. Cuadra/Elsevier. Circle 595.

*Electronic Balances* is a catalog of 11 top-loading and 5 analytical balances featuring RS-232c interface, built-in memory, automatic calibration, and a display lock. Fisher Scientific. Circle 596.

*Bioscience Catalog* contains research equipment for laboratories and is divided into eight sections: (i) liquid pumping, (ii) respiration and metabolism, (iii) animal research, (iv) recording, (v) neurophysiology, (vi) perfusion, (vii) laboratory products, and (viii) books. Harvard Apparatus. Circle 597.

*Hybridoma Technology Services* describes contract research and immunoassay services. Hazleton Biotechnologies. Circle 598.

# Personnel Placement

**SCIENCE** publishes each Friday, except the last Friday of the year. Advertising is accepted only in writing; no abbreviations. Any deadline in ad must be at least 2 weeks after date of issue in which ad appears. Also, personnel advertising is accepted only with the understanding that the advertiser does not discriminate among applicants on the basis of race, sex, religion, age, color, national origin, handicap, or sexual preference.

**LINE CLASSIFIED ADVERTISING DEADLINES:**  
7 November issue (mailed 31 October): **17 October**  
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21 November issue (mailed 14 November): **31 October**  
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**POSITIONS WANTED:** 40¢ per word, plus \$4 for use of box number, per week. \$10 minimum, per week. Prepayment required. This rate is available only to individuals seeking jobs.

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**SCIENCE**  
1333 H Street, NW  
Washington, DC 20005

## POSITIONS WANTED

**Cell Biologist, Ph.D.,** with extensive research experience (cell cycle control/cytodifferentiation/cytoskeleton/self-assembly), many publications, seeks position in/near New York City. Box 175, **SCIENCE**. X

**Entomologist, Ph.D.** Twelve years of experience in field research on insects of ten crops in areas of host plant resistance, chemical control, cultural control, biological control, chemosterilants, economic threshold, diapause, sampling methodology, and so forth. Over 45 publications in refereed journals. Seeks research, industry, teaching, or consulting position. Box 168, **SCIENCE**. X

**Entomologist, Ph.D.** anticipated 1986, seeks position as **biology professor**. Liberal arts environment preferred. Teaching experience includes physiology, toxicology, and the honey bee. Also, qualified to teach invertebrate zoology, cellular and molecular biology, evolution, and behavior. Committed to the instruction of non-majors. Research interests directed toward the effects of pheromones and xenobiotic chemicals on honey bee behavior. Box 177, **SCIENCE**. 10/17, 24

**Environmental/Soil Organic Chemist.** Training in characterization and adsorption study of farm wastes. Experienced in pesticide residue analysis of agricultural commodities. Soil testing and plant analysis. Postdoctoral and supervisory experience. Experienced with GC, GPC, AA, and wet methods. Box 144, **SCIENCE**. 10/17, 31

**Immunochemist, Ph.D.** Extensive experience in protein isolation, purification, and characterization, including solid state peptide sequencing. Seeks research position. Box 173, **SCIENCE**. 10/17, 24, 31

## POSITIONS WANTED

**Immunogenetics/Tumor Biology.** Ph.D. 1972. Continuously funded in chemical and viral carcinogenesis. Background in cell biology, immunology, virology, and genetics. Seeks academic, industrial, research, teaching, or administrative position. Experienced in graduate, undergraduate, and medical school teaching. Box 176, **SCIENCE**. X

**Oceanographic Research Sabbatical.** Desire year with marine laboratory/large vessel to study capture techniques and distributions of pelagic fishes near thermal fronts/other structure. Can provide 1/3 compensation beginning September 1987. J. M. Haynes, Biological Sciences, State University of New York, Brockport, NY 14420. Telephone: 716-395-5750. 10/17, 24

**Research and Quality Assurance Executive.** Ph.D. (biophysics), M.B.A., M. bioradiology, and BSEE. Experienced, creative technical and managerial problem solver seeks challenging opportunity with achievement-oriented organization. Bob Richards, 5705 Blue Sage Dr., Littleton, CO 80123. Telephone: 303-795-8823. 10/17, 24, 31

## POSITIONS OPEN

### ANATOMIST

**Anatomy Department** is hiring anatomists whose primary responsibility will be in gross anatomy. Applicants must also be capable of teaching histology and embryology. All applicants must have a Ph.D. or equivalent background and training. Qualified applicants should submit a résumé and two professional references to: Academic Dean, Cleveland Chiropractic College, 6401 Rockhill Road, Kansas City, MO 64131.

**ANATOMIST, ASSISTANT PROFESSOR,** tenure-track. Primary teaching, neuroanatomy; secondary, assist in gross anatomy laboratory. Research open; preference for neuroscience or cell biology projects utilizing TEM, SEM, cytochemistry, and/or immunocytochemistry. Please submit curriculum vitae, outline of research interests, and names of three references to: **Dr. William E. Dossel, Chairman, Anatomy Department, Creighton University School of Medicine, 2500 California, Omaha, NE 68178.**

**ASSISTANT PROFESSOR:** Applications are invited for a position at the level of assistant professor (tenure-track) in the Department of Chemistry at Stanford University with primary research and teaching interests in inorganic or theoretical chemistry. Applicants must be strongly motivated toward creative research and have a commitment to teaching undergraduates, as well as graduates. In applying, send curriculum vitae, list of publications, a brief statement of research interests (three pages or less) and, in addition, have three letters of recommendation sent to: **Professor John Ross, Chairman, Department of Chemistry, Stanford University, Stanford, CA 94305. Stanford is committed to Equal Opportunity through Affirmative Action in Employment, and we are especially eager to identify minority persons and women with appropriate qualifications.** Applications should be received by 1 November 1986.

**ASSISTANT PROFESSOR.** Two new tenure-track positions will become available in September 1987. The new positions will be offered to qualified individuals who have demonstrated the ability to carry on independent, vigorous, and productive research programs particularly in: control of gene expression, physical biochemistry, protein structure and function, and membrane structure and function. Preference will be given to candidates with significant postdoctoral experience, established productivity, funded or pending research grant, and teaching experience. Duties will include teaching graduate and/or introductory level biochemistry and molecular biology courses. The appointment is for 9 months at a salary commensurate with experience. Please submit curriculum vitae, research synopsis (two to three pages) and letters of recommendation from three references by **15 December 1986.** Send material to: **Dr. Wesley D. Wicks, Biochemistry Department, University of Tennessee, Knoxville, TN 37996-0840. An Equal Opportunity Employer.**

## POSITIONS OPEN

### DEPARTMENT OF PLANT PATHOLOGY AND CROP PHYSIOLOGY ASSISTANT OR ASSOCIATE PROFESSOR

Applications are invited for a tenure-track position in the area of biochemical mechanisms of fungal pathogenicity and/or host plant resistance. Excellent opportunities exist to collaborate with mycologists, plant pathologists, weed scientists, plant physiologists, biochemists, and molecular biologists. Graduate advising is expected and opportunities for graduate teaching may be developed. A Ph.D. degree in plant pathology, plant physiology, microbiology, biochemistry, or related field is required. Familiarity with plant pathogens/mycology and host-pathogen interactions is essential. Training or experience in recombinant DNA techniques are desirable. Please submit curriculum vitae, transcripts, list of publications, and recent reprints and have at least three letters of recommendation sent directly to: **Dr. R. W. Schneider, Chairman of Search Committee, Department of Plant Pathology and Crop Physiology, 302 Life Sciences Building, Louisiana State University, Baton Rouge, LA 70803.** Deadline for application is 1 December 1986, or until a suitable applicant is identified. *Louisiana Agricultural Experiment Station and Louisiana State University are Equal Opportunity/Affirmative Action Employers.*

### DEPARTMENT OF MICROBIOLOGY UNIVERSITY OF GUELPH

Invites applications for a tenure-track appointment as **ASSISTANT PROFESSOR.** The appointee will be expected to develop an active research program in either microbial technology or microbial diseases of fish, and contribute to undergraduate and graduate teaching in microbiology. A broad education in general microbiology, a Ph.D. degree, and postdoctoral or equivalent experience required. Applicants should indicate teaching experience and areas of teaching competence in microbiology. Send curriculum vitae and the names of three referees, by 31 December 1986 to: **The Chairman, Department of Microbiology, College of Biological Science, University of Guelph, Guelph, Ontario, Canada N1G 2W1.** Position subject to final budgetary approval.

### ASSISTANT PROFESSOR, IMMUNOLOGY

We are seeking, in particular, biochemists and molecular biologists who are interested in studying the control of lymphocyte growth, differentiation, or function. An excellent environment for research is complemented by the absence of required teaching. Applicants should submit résumé and three letters of reference to: **David I. Beller, Ph.D., Chief, Laboratory of Immunology, E 337, Boston University Medical Center, 75 East Newton Street, Boston, MA 02118.**

*An Equal Opportunity/Affirmative Action Employer*

### ASSISTANT-ASSOCIATE PROFESSOR

**The Biomolecular Medicine Section of the Evans Department of Clinical Research and Department of Medicine, Boston University Medical Center,** is seeking a molecular biologist/biochemist with a research interest in protein membrane interactions. An M.D. and/or Ph.D. is required and postdoctoral experience is desirable. Interested candidates should send their curriculum vitae, an outline of future research interests, and the names of three references to: **John R. Murphy, Biomolecular Medicine, E336, University Hospital, 75 East Newton Street, Boston, MA 02118. An Equal Opportunity/Affirmative Action Employer.**

**ASSISTANT PROFESSOR OF ANIMAL PHYSIOLOGY;** tenure-track position, Ph.D. required. Primary training at the graduate or postdoctoral level in endocrinology or a related field of physiology with an interest in reproductive physiology is preferred. Experience in molecular biology is required. Prior postdoctoral experience and previous experience in research with avian models are desirable, but not essential. Submit your application with names and addresses of three references in writing to: **Dr. James A. Marsh, Department of Poultry and Avian Sciences, College of Agriculture and Life Sciences, Cornell University, Ithaca, NY 14853, by 15 January 1987.**

*Cornell University is an Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

### ASSISTANT/ASSOCIATE PROFESSOR MICROBIOLOGIST

**Eastern Michigan University's Biology Department** is accepting applications for a tenure-track position to teach and conduct research beginning fall 1987.

Qualifications for both ranks: Ph.D. with documented capabilities in microbial physiology, with molecular background, and training or experience in an area of applied microbiology. Commitment to teaching excellence and supervision of undergraduate and graduate (M.S.) research expected with teaching experience in microbiology required.

To be given consideration at the associate level, candidate must currently hold such rank or have equivalent experience in teaching and research in private industry.

Final deadline for consideration is 31 December 1986.

Applicants must forward a letter of interest, detailed curriculum vitae, and three letters of reference related to the above qualifications to:

**Dr. Herbert Caswell, Jr.**  
Microbiology Search Committee  
c/o Human Resources  
P.O. Box 920  
Eastern Michigan University  
Ypsilanti, MI 48197  
*Equal Opportunity Employer*

### ASSISTANT/ASSOCIATE PROFESSOR INSECT MICROBIOLOGY

Tenure-track (9-month) teaching and research position in the Department of Entomology. Teaching responsibilities will include a graduate level course in insect microbiology and an advanced level course in microbiology/biotechnology. Research will emphasize application of molecular biology and genetic engineering on the development and enhancement of entomopathogens. Rank and salary commensurate with qualifications and experience. Ph.D. in microbiology (bacteriology or virology), insect pathology, or related field. At least 2 years of experience in recombinant DNA technology and molecular genetics highly desirable. Applicants should send a letter of application, curriculum vitae, reprints, a statement of research interests and teaching goals, transcripts, and the names, addresses, and telephone numbers of three individuals who can provide references to: **Dr. David E. Leonard, Chair, Search Committee, Department of Entomology, Hatch Laboratory, University of Massachusetts, Amherst, MA 01003.** Deadline for application materials is 1 December 1986. *The University of Massachusetts is an Affirmative Action/Equal Opportunity Employer.*

### NATIONAL SCIENCE FOUNDATION (NSF)

NSF's, Division of Ocean Sciences, is seeking qualified applicants for the positions of **ASSOCIATE PROGRAM DIRECTOR** and **PROGRAM DIRECTOR FOR THE BIOLOGICAL OCEANOGRAPHY PROGRAM.** The positions are in the excepted service and will be filled on either a permanent, rotator, or temporary basis at the GH-14/15 level. Salary ranges: GH-14, \$44,430 to \$48,876; GH-15, \$52,262 to \$67,940. The salary range for the rotator positions will be: Associate program director—\$40,000 to \$60,000; Program director—\$45,000 to \$70,000 (currently limited by statute to \$68,700).

The rotator candidate receives a leave of absence from his/her employer and salary is set in accordance with NSF's Circular Number 167, Rotator Program. The Biological Oceanography Program provides support for scientists primarily from academic institutions to pursue fundamental research in biological oceanography. The selected candidates will carry out program planning, proposal evaluation, and administration of federal agencies. Applicants should have a Ph.D. or equivalent experience in biological oceanography or a closely related biological science. In addition, for the associate program director 4 to 6 years of successful research experience is required and for the program director position, 6 to 8 years of successful scientific research beyond the Ph.D. is required. Field experience in an academic institutional program is highly desirable. For information on how to apply, telephone: Catherine Handle at 202-357-7840. Hearing-impaired individuals should call 202-357-7492. NSF is an Equal Opportunity Employer.

## POSITIONS OPEN

### ASSISTANT PROFESSORSHIPS

Applications are invited for assistant professorships in any field of chemistry, including organic, inorganic, physical, structural, theoretical, biological, or solid state. Applicants should arrange to have three letters of recommendation sent independently and should include curriculum vitae and a short statement of research interests. *Harvard University is an Affirmative Action/Equal Opportunity Employer. Applications from female and minority group members are welcome.* Applications and supporting material should be sent no later than 30 November 1986 to: **Chairman, Search Committee, Office of the Director, Department of Chemistry, Harvard University, 12 Oxford Street, Cambridge, MA 02138.**

**ASSISTANT RESEARCH NEUROIMMUNOLOGIST.** Department of Neurology, University of California, San Francisco. Candidate required to have at least 2 years of postdoctoral experience. This position requires extensive experience in acetylcholine receptor biochemistry, monoclonal antibody production (including anti-active site antibodies), immunocytochemistry, as well as the application of these techniques to the modification of signal transduction in vitro and in vivo. Candidate must have experience in signal transduction in the nervous system, specifically involving protein kinases and a mastery of kinetic measurements. Experience in developmental studies in the nervous system including application of molecular biology techniques to developmental neurobiology is required, specifically, messenger RNA preparation and translation in vivo and in vitro. Duties will include membrane protein purification, production of monoclonal antibodies, immunohistochemistry, and injection of proteins into living cells in culture. Salary range: \$34,600 to \$43,200; level to be commensurate with experience. Please submit complete curriculum vitae, including list of publications and names of three references, by 30 October 1986 to: **Dr. Adrienne S. Gordon, Ernest Gallo Clinic and Research Center, San Francisco General Hospital, Building 1, Room 101, San Francisco, CA 94110.** *The University of California is an Equal Opportunity/Affirmative Action Employer.*

### ASSOCIATE RESEARCH PHYSICIST UNIVERSITY OF CALIFORNIA (UC), IRVINE

The Department of Physics, UC Irvine, has an opening for an associate research physicist in experimental plasma physics. Ph.D. in plasma physics and 5 to 6 years of experience required. Applicant will assist in management of Pulse Power Laboratory, Controlled Fusion and Accelerator Research. Please send résumé with names and addresses of three references to: **Professor Norman Rostoker, Department of Physics, University of California, Irvine, CA 92717.** *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, AL 35294.** *An Equal Opportunity/Affirmative Action Employer.*

**BOTANICAL ECOLOGIST.** A tenure-track position at the assistant professor level (with Ph.D.) is anticipated for January 1987. Annual teaching duties may include introductory biology, botany, ecology, and a graduate course(s) in the appointee's area of expertise. Research will be expected. Preference will be given those who apply by 31 October 1986, but applications will be received until the position is filled. Send résumé, evidence of teaching ability, and three letters of recommendation to: **Dr. James R. Rastorfer, Department of Biological Sciences, Chicago State University, 95th Street and King Drive, Chicago, IL 60628.** *An Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

### BIOCHEMIST WORCESTER POLYTECHNIC INSTITUTE (WPI) FALL 1987

The Department of Chemistry invites applications for a tenure-track faculty position in biochemistry beginning in the fall 1987. We seek applications for a position at the level of assistant, associate, or full professor. Strong preference will be given to candidates with interest in biotechnology, an area of active development at WPI and in the Worcester area. Applicants should have a Ph.D. degree, a strong experimental program, and a vigorous interest in undergraduate and graduate education. *Women and minorities are urged to apply.* To apply, submit complete résumé, including research plans and teaching interests, and three letters of recommendation to: **Dr. James W. Pavlik, Worcester Polytechnic Institute, Worcester, MA 01609.** *WPI is an Affirmative Action/Equal Opportunity Employer.*

### BIOCHEMIST

An opportunity is available for a tenure-track position in the Division of Medical Genetics, Department of Pediatrics, University of Southern California at the Childrens Hospital of Los Angeles. Joint appointment in microbiology or biochemistry and membership in the Norris-University of Southern California (USC) Cancer Center is available. Candidate should have a background in cell biology and molecular genetics, with some interest in inherited diseases. Send curriculum vitae, representative publications, a statement of interest, and the names of three references to: **John A. Barranger, M.D., Ph.D., Head, Division of Medical Genetics, Childrens Hospital of Los Angeles, P.O. Box 54700, Los Angeles, CA 90054-0700.**

*Childrens Hospital of Los Angeles and USC are Equal Opportunity/Affirmative Action Employers.*

### BIOLOGIST RHODES COLLEGE

The Biology Department of Rhodes College invites applications for a tenure-track position to be filled at the assistant professor level beginning September 1987. Teaching responsibilities will include developmental biology, a course in the area of interest, and involvement in the introductory biology series. Candidates must have the Ph.D. degree, a strong interest in teaching at the undergraduate level, and a commitment to continuing research. Applicants whose research interests are in plant systems are especially encouraged; however, all qualified applicants will be considered. EM experience is desirable, but not required.

Applicants should submit transcripts, curriculum vitae, a statement of research interests, and three letters of recommendation by 1 January to:

**Dr. John Olsen, Chairman  
Department of Biology  
Rhodes College  
Memphis, TN 38112**

*Rhodes College is a College of Liberal Arts and Sciences with 1200 students and a student:faculty ratio of 12:1. Located in midtown Memphis, Rhodes College and the Biology Department enjoy close ties with Memphis State University, University of Tennessee, Memphis Medical School, and St. Jude Children's Research Hospital.*

*Rhodes College is an Equal Opportunity Employer and encourages applications from qualified minority groups and women.*

**BOTANIST**—Begins January 1987. Cumberland College, a church-related liberal arts college with 2000 enrollment, invites application for a tenure-track position. The botanist will teach upper-division courses in dendrology, plant physiology, and plant taxonomy and will be heavily involved with freshman-level general biology. The botanist will also participate in the expanding herbarium and in utilization of the greenhouse. This position requires a strong commitment to undergraduate education in a liberal arts, Christian atmosphere. It is expected that the individual, in addition to classroom teaching and student advising, will exhibit continued professional growth. Ph.D. required.

Send letter of application, résumé, and three references to: **Dr. Joseph E. Early, Academic Dean, Cumberland College, Williamsburg, KY 40769.** Deadline: 1 November 1986.

## POSITIONS OPEN

### CHAIRMAN, DEPARTMENT OF ANATOMY

The Mount Sinai School of Medicine of the City University of New York seeks an outstanding leader for its Department of Anatomy. The successful candidate should have a strong commitment to medical and graduate student teaching, and the development of curricula that are interactive with other basic sciences and pre-clinical sciences. In addition, we seek an individual with an active and well-recognized research program; some preference may be given to neurosciences-oriented investigators in view of the larger institutional growth in this area, but inquiries from anatomists in other areas are most welcome.

Please send curriculum vitae to:

Kenneth D. Smith  
Anatomy Search Committee  
Postgraduate School  
Mount Sinai School of Medicine  
One Gustave L. Levy Place  
New York, NY 10029

### CHAIRMAN, DEPARTMENT OF PHYSIOLOGY

Tulane University School of Medicine is recruiting a chairman for the Department of Physiology. This is a prestigious position in a department consisting of 10 regular and 12 adjunct faculty members. The candidate must have strong interest in teaching and research and have an established reputation as an investigator. Administrative experience in an academic setting is essential.

Send curriculum vitae and a list of publications by 30 November 1986 to:

Dr. Rune L. Stjernholm, Chairman, Physiology Search Committee, Department of Biochemistry, Tulane Medical School, 1430 Tulane Avenue, New Orleans, LA 70112.

*An Affirmative Action/Equal Opportunity Employer.*

**CLINICAL PHARMACOLOGIST**—The Department of Pharmacology and Therapeutics, Schools of Medicine and Dentistry, State University of New York at Buffalo invites applications for a full-time faculty position as assistant or associate professor with joint appointment in the Department of Medicine. Rank will be determined by candidate's qualifications. Candidate must have M.D. degree, U.S. license to practice, and appropriate clinical training, preferably in infectious disease, to function in an academic Department of Internal Medicine as determined by that department. The applicant must be qualified to conduct research in a Department of Pharmacology and Therapeutics as evidenced by training, research experience, publications, or grants obtained. Send curriculum vitae and request that three letters of recommendation be sent to: Dr. Edward A. Carr, Jr., 127 Farber Hall, State University of New York at Buffalo, School of Medicine, Buffalo, NY 14214. *An Equal Opportunity/Affirmative Action Employer.*

**CYTOGENETICIST**: Division of Medical Genetics, Department of Preventive Medicine seeks M.D. or Ph.D., eligible or certified American Board of Medical Genetics for tenure-track faculty position supervising research/clinical laboratory and teaching. Send curriculum vitae to: John F. Jackson, M.D., Department of Preventive Medicine, University of Mississippi Medical Center, 2500 North State Street, Jackson, MS 39216-4505. *Equal Opportunity Employer, M/F/H/V.*

### DEVELOPMENTAL BIOLOGIST

The Department of Biology of Emory University invites applications for a tenure-track position at the assistant professor level to begin 1 September 1987. The department is currently expanding in the area of developmental biology. Our present search is for a developmental biologist who will interact with established groups in molecular biology, genetics, or neurobiology. The successful candidate will be expected to establish an independent research program and participate actively in the teaching program. Curriculum vitae, a statement of research interests, and the names and addresses of three references should be submitted by 30 December 1986 to: Dr. William A. Elmer, Developmental Biology Search Committee, Department of Biology, Emory University, Atlanta, GA 30322. *Emory University is an Affirmative Action and Equal Opportunity Employer.*

## POSITIONS OPEN

### CORNELL UNIVERSITY

#### CHAIRPERSON

#### Department and Section of Physiology

The New York State College of Veterinary Medicine and the Division of Biological Sciences at Cornell University invite applications and nominations for the position of chairperson of the department and section. This academic unit is responsible for instruction in physiology to undergraduate, graduate, and professional veterinary medical students. The successful candidate will be expected to provide academic and administrative leadership for the instructional and research programs for the department and section, to recruit and develop faculty and staff, to prepare, administer, and adhere to the budget, and to cooperate with the faculty in developing and implementing realistic but ambitious goals for the department and section. The chairperson also will cooperate with other Cornell faculty and administrative officers in matters affecting relevant teaching, research, and service programs of the university.

The appointee will possess a doctor of veterinary medicine, a doctor of medicine, or a doctor of philosophy degree in physiology, or equivalent. He or she must have outstanding teaching and research credentials appropriate to the interests of the college and division and sufficient to qualify for an academic appointment as a full professor in the Department and Section of Physiology. The successful candidate also must have demonstrated academic leadership and administrative qualities, preferably in a college of veterinary or human medicine, and a record of active participation in professional affairs. Interested individuals are encouraged to contact: Dr. Daniel N. Tapper, Chairperson Search Committee, New York State College of Veterinary Medicine, Cornell University, Ithaca, NY 14853; telephone: 607-253-3480 for additional information about the position and the application procedure. All inquiries and applications will be treated in confidence.

*Cornell University is an Affirmative Action/Equal Opportunity Employer/Educator.*

### ENVIRONMENTAL CHEMIST

HAMPSHIRE COLLEGE is seeking an analytical or inorganic chemist for a long-term position beginning fall 1987. The School of Natural Science is looking for an excellent teacher of chemistry who will involve students in research projects concerning environmental issues. The faculty member will be expected to develop science courses and seminars and to supervise and evaluate a variety of student research projects. Hampshire offers a stimulating and supportive environment for interdisciplinary teaching and research and has an active Third World Studies Program. Preference will be given to candidates who have a strong background in environmental issues that affect the Third World (in the United States and abroad) and who can enrich our growing community of minority students and faculty. Candidates should send letters and résumés to: Lawrence Winship, School of Natural Science, Hampshire College, Amherst, MA 01002, before 1 December. *Hampshire College is an Equal Opportunity Employer and has embarked on a vigorous Affirmative Action Program. Minority candidates are particularly encouraged to apply.*

### ENVIRONMENTAL CHEMISTRY DUKE UNIVERSITY

The School of Forestry and Environmental Studies seeks to fill a full-time, 9-month, 3-year, non-tenure-track position, with possible conversion to tenure-track. Requires Ph.D. in environmental chemistry or a related field of science or engineering. Candidates should show outstanding potential for research in ecotoxicology which includes (but is not limited to) aquatic ecosystems, atmospheric deposition effects, and hazardous waste effects. Responsibilities: develop an externally funded research program, teach graduate-level courses in environmental chemistry, and advise students and direct graduate student research. Submit curriculum vitae, representative publications, transcripts (for recent graduates), and the names of four references to: Dr. Curtis Richardson, Chair, Environmental Chemistry Search Committee, School of Forestry and Environmental Studies, Duke University, Durham, NC 27706. Position will remain open until 1 December 1986, or until filled. Starting date is negotiable.

*Equal Opportunity/Affirmative Action Employer*

## POSITIONS OPEN

### BALL STATE UNIVERSITY MUNCIE, INDIANA

**DEAN, COLLEGE OF SCIENCES AND HUMANITIES.** Ball State University invites nominations and applications for dean of the College of Sciences and Humanities, position available 1 July 1987. The dean is the chief academic and administrative officer of the university's largest college. For more information, contact: E. Jean Amman, Assistant to the Provost, Ball State University, Muncie, IN 47306. *Ball State University Practices Equal Opportunity in Education and Employment.*

### DIRECTOR CALIFORNIA PRIMATE RESEARCH CENTER

University of California, Davis  
Davis, CA

Applications and nominations are invited for **Directorship of California Primate Research Center (CPRC)** available 1 July 1987. The director is responsible for management of the laboratory with 24 core and 64 affiliate scientists, 19 collaborating scientists, and 100 graduate students; overall management of research programs; administration through contracts between the University of California and the Division of Research Resources, National Institutes of Health, and 35 extramural grants and contracts. CPRC research programs relate to selected human health problems for which the nonhuman primate is the animal model of choice, and have a theme of effects of environmental influences. Major programs in developmental and reproductive biology, fetal and neonatal medicine, respiratory diseases, behavioral biology/pathobiology and primate medicine. The colony consists of approximately 2700 nonhuman primates.

An applicant should have demonstrated success in administration; be a scientist of stature who has made significant contributions in a biomedical field, and have an intent to remain active as an investigator. A background in some aspects of primatology is beneficial, but not essential. The director is expected to qualify for, and will be appointed to, a professorial title in an appropriate department on the Davis campus.

Applicants should submit curriculum vitae with the names of three references to: Dean E. A. Rhode, School of Veterinary Medicine, University of California, Davis, CA 95616, by 31 December 1986.

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

### DIRECTOR IMAGE ANALYSIS/COMPUTER CORE FACILITY

The Laboratory of Neurobiology, Cornell University Medical College, is seeking an individual with experience in quantitative image analysis, interactive computer graphics, and UNIX system management. Computer facilities include MicroVAX-II, SUN-3 workstations, DeAnza 8500, IBM PC-AT's and peripherals supporting a variety of research applications. This individual will supervise the activities of the Computer Core, develop new applications, and meet with investigators regarding their computer needs. Ph.D. or M.S. desired. Send résumé to: L. Tucker, Ph.D., Laboratory of Neurobiology, Cornell University Medical College, 411 East 69 Street—KB429, New York, NY 10021. *Equal Opportunity Employer.*

### EXECUTIVE VICE PRESIDENT

**Illuminating Engineering Society** invites applications for executive vice president position in non-profit membership technical society located in New York City, available January 1987.

Desired characteristics include: experience in nonprofit association financial and budget planning and management; track record of interpersonal relations in a volunteer organization; Certified Association Executive, or equivalent experience.

Résumé and salary history by 15 November to:

IES Search (SCI)  
345 East 47 Street  
New York, NY 10017



## MARKETING SPECIALIST

**Applications  
Biochemist/  
Immunologist**

**San Francisco  
Bay Area**

Bio-Rad Laboratories, a recognized leader for 29 years in the fields of clinical diagnostics, separations and identification chemistry, and analytical instrumentation, currently has an opportunity for a Marketing Specialist. If you are looking for a chance to move out of the lab and into a high visibility position where you can share product management responsibilities, then this opportunity will interest you.

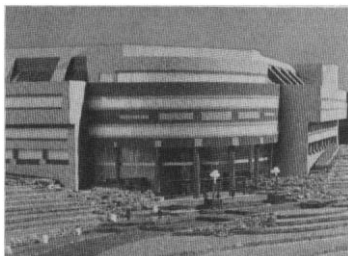
Involves methods development in support of new and existing products; customer technical service; sales training for domestic and international sales personnel; and general marketing support functions. Some travel involved.

Requires a degree in immunology, biochemistry, or related field; advanced degree a plus. You should be experienced with monoclonal antibody production and ELISA techniques. Western blotting and electrophoresis experience a plus. Good communication skills essential.

Please submit your resume, including salary history, to Bio-Rad Laboratories, Human Resources, Dept. #165-S1017, 1414 Harbor Way, Richmond, CA 94804. An equal opportunity employer.

**BIO-RAD** Bio-Rad Laboratories

## SENIOR RESEARCH SCIENTIST RECEPTOR SCREENING



*Bristol-Myers new pharmaceutical research center in Wallingford, CT.*

The Bristol-Myers Pharmaceutical Research and Development Division, at its new research facility in Wallingford, Connecticut, is seeking an exceptional scientist for its Screening and Biochemical Research Department.

The successful candidate will join a research team dedicated to applying the most modern techniques to the discovery of pharmacological agents from natural sources. This key position requires:

- Ph.D. in Biochemistry, Cell Biology or Pharmacology
- At least 2 years experience in mammalian receptor research.

Relevant postdoctoral experience is desirable.

Bristol-Myers offers competitive salary compensation and a comprehensive benefit package including relocation assistance.

For confidential consideration forward your resume, including salary history, in confidence to: **Bristol-Myers Company, Pharmaceutical Research & Development Division, P.O. Box 5100, 5 Research Parkway, Wallingford, Connecticut 06492.** An Equal Opportunity Employer.

## Bristol-Myers

## Research Scientist Opportunity With A World-Class Leader

The **Hyland Therapeutics Division** of Baxter Travenol Laboratories, Inc. is seeking a qualified **Research Scientist** to perform immunoglobulin identification, purification and characterization studies at our world-renowned research facility in the Los Angeles area.

The selected individual will perform cell fusions, screening assays and subsequent purification procedures relating to hemostasis from hybridoma culture supernatants, while establishing a variety of procedures to insure that functionality and other quality levels are maintained. The resulting monoclonal antibodies will be utilized in the preparation of therapeutic agents.

We require a Ph.D. in Immunochemistry or Biochemistry; 2-3 years post-doctoral experience in cellular immunology to include hybridoma fusion and monoclonal antibody characterization; and excellent technical communication skills, to be used in the preparation of supporting technical documents for manufacturing procedures, Q.A., and Regulatory Affairs, and in the development of proposals for new products.

We offer a challenging, innovative work environment, as well as competitive salaries and comprehensive benefits. For immediate consideration, please forward a resume to: **Vickie Thrasher, Hyland Therapeutics Division, 4501 Colorado Blvd., Los Angeles, CA 90039.** Equal Opportunity Employer.

*Leadership in Health Care*

**TRAVENOL**

Hyland Therapeutics Division

## POSTDOCTORAL APPOINTMENTS IN MECHANISMS OF TOXICOLOGY

The Lovelace Inhalation Toxicology Research Institute offers outstanding opportunities to recent (within last 36 months) doctoral degree graduates to train at its internationally recognized laboratory in Albuquerque, New Mexico. Two year appointments are available for individuals with the following training:

- Doctoral degree in fields such as Biochemistry, Pharmacology, Toxicology, Molecular Biology, Chemistry, Medicinal Chemistry, Biophysics, Experimental Pathology or related fields.
- Three to four years of laboratory experience of the type typically associated with rigorous doctoral degree program.

The successful applicants will have the opportunity to work with our multidisciplinary staff of 50 doctoral degreed scientists in a modern and well equipped research environment. A wide spectrum of activities are under way including research to understand the physical and chemical properties of airborne materials and how these properties influence their toxicity, the toxicokinetics of inhaled materials and mechanisms of toxicity in mammals using *in vitro* and *in vivo* systems. Major investigations focus on the biology and pathology of the respiratory tract with emphasis on studying mechanisms of induction of respiratory tract cancer.

These appointments will enhance the career options of individuals with good communications skills who desire to work in a multidisciplinary team environment. Starting stipend of \$20,000 per annum plus relocation and comprehensive health care benefits. U.S. Citizenship or permanent residency required. To apply, contact the Personnel Unit, Lovelace Inhalation Toxicology Research Institute, (505) 844-9431, or write to: P.O. Box 5890, Albuquerque, NM 87185.

An Equal Opportunity/Affirmative Action Employer

## Neurobiologists

The Worcester Foundation for Experimental Biology has several faculty level openings for Neurobiologists committed to cellular and molecular approaches to understanding the function and organization of the nervous system. Excellent opportunities exist for collaboration with scientists working on membrane organization, ion channel function and regulation, chemoreception, biological rhythms, gene expression, cell-cell interactions, cytoskeleton and motility, developmental biology, and neuroendocrinology. Candidates must be able to develop a strong, independent research program. Excellent facilities, a minimum of non-scientific obligations and a vigorous administrative commitment to quality research all contribute to a supportive environment highly conducive to scientific interactions. The Foundation is situated on a wooded 100 acre campus only a few minutes from the University of Massachusetts Medical Center and in close proximity to all major New England academic and research institutions. Send resume, a statement of research plans and interests and the names of at least three references to the **Neurobiology Recruitment Committee, C/O Personnel Office, Worcester Foundation for Experimental Biology, 222 Maple Avenue, Shrewsbury, MA 01545, USA.**



## WORCESTER FOUNDATION FOR EXPERIMENTAL BIOLOGY

An Equal Opportunity, Affirmative Action Employer

## AGRICULTURAL SCIENCES

### College of Agricultural & Environmental Sciences University of California

The College is committed to enhance its teaching and research programs in the agricultural and environmental sciences. Several faculty and academic staff openings are anticipated over the next few years, including the following tenure-track faculty positions which are available immediately:

#### ASSISTANT PROFESSOR/ASSISTANT FOOD CHEMIST, EMPHASIZING FOOD LIPIDS.

Candidates should have a strong background in chemistry or biochemistry. A clear interest in developing research in the chemistry/biochemistry of food lipids should be demonstrable. Apply to D. S. Reid, Department of Food Science and Technology, by December 1, 1986.

#### ASSISTANT/ASSOCIATE/PROFESSOR/AGRICULTURAL ECONOMICS.

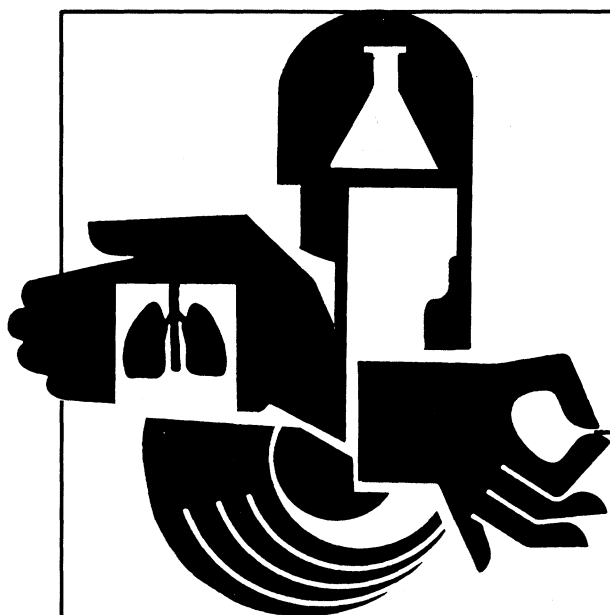
To develop a distinguished research program in **ECONOMICS OF AGRICULTURE** emphasizing one or more of the following areas: natural resource economics, human resources, production economics, agricultural marketing and trade. Apply to W. E. Johnston, Department Agricultural Economics, by January 1, 1987.

#### ASSISTANT PROFESSOR/ASSISTANT GENETICIST, IN QUANTITATIVE GENETICS AND ANIMAL BREEDING.

Research effort includes development of quantitative genetic theory related to biotechnology. Apply to Y. B. Lee, Animal Science Department, by December 1, 1986.

These positions are to be filled at the Assistant Professor 11-month salary level (unless other rank is indicated above). The positions have responsibilities for teaching, advising and research (in the Agricultural Experiment Station). Candidates should have a Ph.D. in an appropriate field and teaching and research experience. Applicants should submit resume, statement of research and teaching experience, list and reprints of publications, and the names and addresses of at least three persons familiar with the applicant's qualifications, to individual and department as noted for position (Department Name), University of California, Davis, CA 95616. Please indicate the position in which you are interested. The completed application must be received by date indicated for each position.

**THE UNIVERSITY OF CALIFORNIA IS AN EQUAL OPPORTUNITY AFFIRMATIVE ACTION EMPLOYER.**



## New Product Development

Cooper Laboratories Inc., a wholly-owned subsidiary of Cooper Development Company, located in Mountain View, California, focuses on advanced biotechnologies applied to therapeutic products for respiratory diseases.

The Company pursues development of innovations such as liposome encapsulation of respiratory therapeutics as well as recombinant DNA sourced proteins for treatment of genetically-deficient emphysema patients.

Our aim is to build a pharmaceutical business with particular focus on pulmonary therapeutics. We have a number of openings in key areas:

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### **SENIOR PROCESS DEVELOPMENT ENGINEER/BIOCHEMIST**

Responsible for the development of new recovery processes for recombinant proteins. The responsibility will entail the creation of large scale, recovery processes for bulk manufacturing of proteins. A PhD in Biochemistry or related field and 2+ years of industrial experience is required. Knowledge of GMPs is preferred.

### **SENIOR BIOCHEMIST**

Responsible for the development of efficient chromatographic separation processes for therapeutic proteins from recombinant sources. Our ideal candidate should have substantial experience in modern separation techniques, including HPLC. The position requires a PhD in Biochemistry or equivalent. Industrial experience is preferred.

### **LIPID CHEMIST**

Responsible for the purification and synthesis of phospholipids, as well as for the large scale phospholipid separation processes. An MS in Pharmaceutical Chemistry (or related field) with solid industrial experience or a PhD is required.

### **SENIOR IMMUNOLOGIST**

Responsible for the development of immunoassays and other assays in support of the development of recombinant proteins as well as liposome encapsulated therapeutics. The position requires a PhD in immunology or a related field. Two or more years of industrial experience with assay development and immunochemistry is preferred.

### **CLINICAL RESEARCH ASSOCIATE**

Responsible for initiating and monitoring clinical research studies for recombinant alpha 1-antitrypsin and liposome encapsulated respiratory drugs, including the preparation of clinical study reports for the FDA. The position requires a BS or equivalent in biological, pharmaceutical or chemical science as well as 3+ years of pharmaceutical industry experience in clinical research. Knowledge of pulmonary medicine and biostatistics is highly desirable.

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In addition to a professional and stimulating work environment, we offer excellent salaries and benefits. For immediate consideration, please send resume with salary requirements to Professional Employment Dept. S1017, Cooper Laboratories Inc., 3145 Porter Drive, Palo Alto, CA 94304. An equal opportunity employer. Principals only, please.

## **Cooper Laboratories Inc.**



## POSITIONS OPEN

### ENTOMOLOGY SCIENTIFIC ASSISTANT

The Department of Entomology of the American Museum of Natural History is seeking a scientific assistant to assist curators with our distinguished collection. Responsibilities include collection management, illustration, sorting and identification, preparation of dissections, mounting, labeling, loan preparation, and assisting with research projects.

Qualified candidates must have a baccalaureate degree in the biological sciences with a concentration in entomology; some collection-related experience and illustration skills preferred; interest and knowledge of Diptera helpful, and the ability to do detailed and meticulous work. Salary \$18,604 per annum. Excellent benefits. For consideration, please forward résumés to: **Mr. Lee Vilensky, Personnel Department, American Museum of Natural History, Central Park West at 79th Street, New York, NY 10024.** An Equal Opportunity Employer.

### EUKARYOTIC MOLECULAR BIOLOGIST

Applications are invited to fill a tenure-track assistant professorship of biology in a growing department with increasing emphasis in molecular biology. We prefer candidates with postdoctoral training and research interests which will complement existing programs in developmental biology. The successful candidate will be expected to teach in the undergraduate and graduate programs and to implement a research program which will attract extramural funding. Applications should include curriculum vitae, the names, addresses, and telephone numbers of three references and a brief description of your current and proposed research program. Review of applications will begin 1 December 1986. Please submit your application to: **Dr. P. Dennis Smith, Chairman, Eukaryotic Molecular Biology Search Committee, Department of Biology, Southern Methodist University, Dallas, TX 75275.** SMU is an Equal Opportunity/Affirmative Action/Title IX Employer.

### FACULTY POSITION IN INORGANIC CHEMISTRY AT IOWA STATE UNIVERSITY

Applications and nominations of candidates are invited for a faculty position available in summer or fall 1987. Candidates in any specialty within inorganic chemistry will be considered. Any appointment probably will be made at the level of assistant professor, although an advanced-level appointment might be possible for an outstanding person with suitable experience and credentials. The position requires demonstrated aptitude for creative research and for teaching, and a commitment to excel in both. Applications should be directed to: **Professor David K. Hoffman, Chairman, Department of Chemistry, Iowa State University, Ames, IA 50011.** Applicants should submit curriculum vitae, transcripts, and an outline of their research plans during the initial stages of their independent scientific careers. Applicants for assistant professor should arrange for three references to send letters directly to **Professor Hoffman.** Screening of applications will begin in November 1986. *Women and minority applicants are encouraged to apply.* Iowa State University is an Affirmative Action/Equal Opportunity Employer.

### PROTEIN BIOCHEMIST

Applications are invited to fill a tenure-track assistant professorship of biology in a growing department with increasing strength in prokaryotic and eukaryotic molecular biology. We seek an individual whose training and research interests are in an area of **protein biochemistry** which will complement current departmental programs in biochemistry, molecular genetics, microbiology, cell biology, and parasitology. The successful candidate will be expected to teach in the undergraduate and graduate programs and to implement a research program which will attract extramural funding. Applications should include curriculum vitae, the names, addresses, and telephone numbers of three references and a brief description of your current and proposed research program. Review of applications will begin 1 December 1986. Please submit applications to: **Dr. P. Dennis Smith, Chairman, Protein Biochemistry Search Committee, Department of Biology, Southern Methodist University (SMU), Dallas, TX 75275.** SMU is an Equal Opportunity/Affirmative Action/Title IX Employer.

## POSITIONS OPEN

### EXPERIMENTALIST LABORATORY AND SPACE PLASMAS

The Plasma Physics Division of Science Applications International Corporation (SAIC) is seeking an experimentalist with a background in design, development, testing, and application of plasma particle and field detectors. We are looking for an individual with laboratory and space platform experience. A demonstrated capability in data reduction and analysis is desirable. The selectee will work with a group of 30 Ph.D.'s, including computational and experimental plasma physicists, covering areas in geoplasma processes, beam-plasma interactions, pulsed-power diodes, laboratory-based space-plasma simulations, and device engineering. U.S. citizenship and a Ph.D. are preferred, but not necessary. Applicants should send a résumé to

SAIC  
1710 Goodridge Drive  
McLean, VA 22102  
Attention: **Judy Staudinger**  
Equal Opportunity Employer

The Department of Physiology and Biophysics at Louisiana State University in Shreveport invites applicants for five tenure-track **FACULTY POSITIONS** at the level of assistant/associate professor. Candidates must have Ph.D. degree with demonstrated ability and commitment to both teaching and a strong independent research program. Successful applicants will have a proven record in one or more of the following research areas: gastrointestinal circulation, lipid absorption, lipoprotein metabolism, oxygen radical biochemistry, microvascular exchange, and blood flow regulation.

Submit curriculum vitae by 1 November 1986 with the names and addresses of three references to: **Head, Department of Physiology and Biophysics, Louisiana State University Medical Center in Shreveport, P.O. Box 33932, Shreveport, LA 71130.** Affirmative Action/Equal Opportunity Employer.

### UNIVERSITY OF CALIFORNIA—RIVERSIDE FACULTY POSITION ASSISTANT PROFESSOR Organismal Biology

The Department of Biology, University of California, Riverside, invites applications for a tenure-track position in animal biology with focus at the organismal level. The appointment will be effective 1 July 1987 with duties commencing in September. Applicants should have at least 1 year of postdoctoral training, demonstrated excellence in research, and a commitment and demonstrated ability to teach both undergraduate and graduate students. We are particularly seeking an individual with interests and expertise in neural and/or endocrine control mechanisms. Acceptable research areas include, but are not limited to, organismal physiology, behavior, and functional morphology. To apply, send curriculum vitae, statement of research and teaching interests, copies of representative publications, and three letters of recommendation by 15 January 1987 to: **Organismal Biology Search Committee, Department of Biology, University of California, Riverside, CA 92521.** The University of California is an Equal Opportunity/Affirmative Action Employer and qualified minority and female candidates are encouraged to apply.

### TENURE-TRACK FACULTY POSITION DEPARTMENT OF ORAL PATHOLOGY AND GENETICS OF THE SCHOOL OF DENTISTRY UNIVERSITY OF MINNESOTA

Minimum qualifications are: D.D.S. (or D.M.D.) with advanced degree, or M.D. with advanced degree, or Ph.D. The position includes teaching and research. The applicant should have research expertise and experience in molecular biology, molecular genetics, pathology, or immunology.

The position is available after 1 January. Please send complete curriculum vitae, two letters of recommendation, and statement of career goals by 31 December 1986 to: **Dr. William Liljemark, School of Dentistry, University of Minnesota, Minneapolis, MN 55455.**

The University of Minnesota is an Equal Opportunity Educator and Employer and specifically invites and encourages applications from women and minorities.

## POSITIONS OPEN

### FACULTY POSITIONS IN MICROBIOLOGY AND IMMUNOLOGY

The Department of Microbiology at Kansas University Medical Center, Kansas City, Kansas, is seeking candidates for several tenure-track faculty positions with starting dates in the spring 1987. One appointment is expected to be made at the assistant professor level and this individual will be expected to develop and maintain an active research program. A second appointment will be made at the level of associate professor although exceptional candidates will be considered at the full professor level. It is anticipated that this second individual will have an established research program. Successful candidates will be expected to participate in departmental teaching of graduate and medical students. The department is particularly interested in recruiting individuals with research interests in **pathogenesis of infectious disease, molecular parasitology, molecular immunology, or tumor immunology** although highly qualified individuals in other areas of microbiology/immunology are also strongly encouraged to apply. The department can provide highly competitive startup funds and newly renovated laboratory space for the successful candidates. This is an excellent opportunity to join a growing dynamic Microbiology Department committed to excellence in research and education. Applicants should send curriculum vitae with a description of research interests and goals, recent reprints, and arrange to have three letters of reference sent to: **David C. Morrison, Department of Microbiology, Kansas University Medical Center, 39th and Rainbow Boulevard, Kansas City, KS 66103.** Open until filled, but not after 1 March 1987. The University of Kansas Medical Center is an Equal Opportunity/Affirmative Action Employer.

### FACULTY POSITION IN MICROBIOLOGY

The Dr. William M. Scholl College of Podiatric Medicine invites applications for a full-time position in the Department of Microbiology and Pathology. A Ph.D. in microbiology or related area is required. We offer faculty rank and salary commensurate with professional experience and achievements. The position is available 1 July 1987.

The major duty is teaching a comprehensive course in medical microbiology, including laboratory, to second-year medical students. Limited intramural funds are available to assist in personal research interests.

Qualified applicants may submit a letter of application, curriculum vitae and supporting materials, including the names of three references, by 15 December 1986 to:

**Mr. Harold J. Stronach**  
Director of Human Resources  
Dr. William M. Scholl College of Podiatric Medicine  
1001 N. Dearborn Street  
Chicago, IL 60610  
An Equal Opportunity Employer

The Department of Pathology and Laboratory Medicine is recruiting for two **TENURE-TRACK POSITIONS** to begin July 1987 in the area of **DIABETES AND METABOLIC REGULATION RESEARCH.** Preference will be given to applicants with interest in hormone action, transmembrane signaling, and receptor regulation. Applicants should have M.D., M.D.-Ph.D., or Ph.D. degrees. Candidates can have some clinical activity in the clinical chemistry-endocrine laboratory area. Rank and salary will be based on background and experience. Successful candidates must be capable of establishing an independently funded research program. The department already has several established investigators in this area of research and the University of Pennsylvania has an NIH-funded Diabetes and Endocrine Research Center. Applicants should send their curriculum vitae and bibliographies along with names and addresses of at least two references to:

**Leonard Jarett, M.D.**  
Simon Flexner Professor and Chairman  
Department of Pathology and Laboratory Medicine  
Hospital of the University of Pennsylvania  
3400 Spruce Street  
Philadelphia, PA 19104-4283

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

## POSTDOCTORAL POSITION: GROWTH FACTORS

The Laboratory of Tumor Immunology and Biology at the National Cancer Institute, NIH, Bethesda, MD is seeking a Postdoctoral Fellow interested in the function, distribution and mechanism of action of peptide growth factors in human breast cancer.

Candidates are required to have:

- a Ph.D. in Molecular Biology, Biochemistry or Cell Biology
- 0-4 years postdoctoral research experience
- research experience in molecular cloning, restriction mapping, cDNA preparation, Northern and Southern blotting is desired
- salary negotiable

Qualified candidates should send their resume and two letters of reference to: **Dr. David Salomon, Laboratory of Tumor Immunology and Biology, National Cancer Institute, Bldg. 10, Rm 5B43, NIH, Bethesda, MD 20892.**

## STAFF SCIENTIST

### Macromolecular Crystallography

Merck Sharp & Dohme Research Laboratories, a worldwide leader in pharmaceutical research, will have a position become available at the beginning of 1987 to join the expanding protein x-ray structure determination group. Major emphasis will be on computer programming, data analysis, and instrumentation, but the candidate should be capable of participating in all aspects of the project, including the growth of crystals, data collection, and data reduction and structure solution.

Candidates should have a B.S. or M.S. degree or equivalent in the physical or mathematical sciences. Experience with computers and instrumentation and a knowledge of scientific FORTRAN is critical, while background in chemistry and/or biochemistry is desirable. Merck has excellent crystallographic, graphics and computing facilities within a dynamic scientific environment.

Merck Sharp & Dohme Research Laboratories are located in Rahway, New Jersey approximately 20 miles south of New York City. Our salaries, benefits, and growth potential are excellent.

Interested candidates should submit their resume with three references for confidential consideration to: **Ms. Alaina L. Love, R80M-TL1, Merck Sharp & Dohme Research Laboratories, P.O. Box 2000, Rahway, NJ 07065. EEO/AA/VH EMPLOYER.**



**Merck & Co., Inc.**

## RESEARCH ASSOCIATES

An industry leader in advanced biotechnology, **Amgen** develops products for significant applications, including human therapeutics and diagnostics, and animal health care. We have immediate openings in our Pharmacology Division and Yeast Vector Development Group for Research Associates.

### Pharmacology

Conduct basic and applied *in vivo* and *in vitro* studies in the following areas: pituitary hormones, growth factors, metabolism, and drug delivery systems. Background must include B.S. or preferably M.S. and a minimum of 1-2 years experience in physiology or endocrinology. Knowledge of computers and statistics is helpful. Experience in surgical techniques, drug administration, and use of physiological and biochemical monitoring instrumentation is desirable.

**Send resume to: Dept. 8**

### Yeast Vector Development

Responsibilities include protein purification and characterization, enzyme assays and western blotting; recombinant DNA methodology, including plasmid constructions, southern and northern analysis and yeast genetics and yeast cell biology. Experience in mammalian cell culture would be useful. The successful candidate will have a B.S. or M.S. degree in Biology, Biochemistry or Molecular Biology with 1-2 years related experience.

**Send resume to: Dept. 90**

**Amgen** offers a competitive compensation and benefits package, and is located in an attractive community about an hour northwest of Los Angeles. Qualified candidates should direct a resume to the appropriate department listed above and mail to:

### Recruitment

#### AMGEN

1900 Oak Terrace Lane  
Thousand Oaks, CA 91320

**AMGen**

Equal Opportunity Employer

## POSITIONS OPEN

### FACULTY POSITIONS Parasitology, Microbiology Hematology, Immunology

Two tenure-track positions available for an integrated, cooperative, medical laboratory science program. Applicants should have doctorate (master's with outstanding credentials considered) and must be certified or eligible for certification as a medical technologist, clinical laboratory scientist, microbiologist, hematologist, or immunohematologist. Experience in the clinical laboratory and academic teaching is essential. Demonstrated research ability and computer skills are essential. Rank and salary commensurate with qualifications and experience. Positions available immediately. Submit curriculum vitae to: **Dr. Gerald Davis, 206 Mugar Hall, Department 4, Northeastern University, Boston, MA 02115.** *Northeastern is an Equal Opportunity/Affirmative Action, title LX university.*

### FACULTY POSITION IN MOLECULAR BIOLOGY

The Department of Animal Science, Michigan State University, invites applications for an Assistant Professor position in molecular biology with a possible joint appointment in the Departments of Biochemistry or Microbiology. Applicants should hold a Ph.D. in molecular biology/biochemistry/microbiology or related areas with postdoctoral research experience and have an established interest in molecular biology. Responsibilities include development of an independent research program, interaction with departmental faculty studying growth and muscle biology, endocrine regulation of metabolism and mammary and reproductive physiology, and some teaching at the graduate level. Applications, including curriculum vitae, publications, and names of three references should be sent before 1 January 1987 to: **Dr. Maynard G. Hogberg, Chairperson, Department of Animal Science, 102 Anthony Hall, Michigan State University, East Lansing, MI 48824-1225.**

### FACULTY POSITIONS AVAILABLE DEPARTMENT OF BIOLOGY EAST CAROLINA UNIVERSITY GREENVILLE, NC 27858-4353

- 1) **VERTEBRATE ZOOLOGIST.** Tenure-track, assistant professor beginning August 1987 for Ph.D. vertebrate zoologist/endocrinologist with strong background in comparative anatomy. Teaching to include general biology, general zoology, and course in area of specialty.
- 2) **MOLECULAR GENETICIST/MICROBIOLOGIST.** Tenure-track, assistant professor, starting August 1987 for Ph.D. eukaryotic molecular geneticist. Teaching to include microbiology, general biology, and/or participation in biotechnologist training program.
- 3) **POPULATION GENETICIST.** Nontenure-track, lecturer, 1-year contract starting August 1987 for Ph.D. with training in population genetics and experience in applicable molecular biology techniques. Teaching to include genetics, evolution, and general biology courses.

Postdoctoral experience desirable and development of an active research program required for all. Letter of application, curriculum vitae, official transcripts, and names, addresses, and telephone numbers of three references should be sent by 15 December 1986 to: (i) **Dr. Gerhard Kalmus**, (ii) **Dr. Wendall Allen**, or (iii) **Dr. Robert Christian** at the above address. Telephone: 919-757-6718. *Affirmative Action/Equal Opportunity Employer.*

State University of New York (SUNY), Stony Brook, **FACULTY POSITION** available September 1987 in Biopsychology Program. Open rank. Successful applicant will pursue research program in neuroscience, in addition to undergraduate/graduate teaching. Postdoctoral experience required. Stony Brook is a strong neuroscience campus in relaxed seaside community 60 miles from New York City. Send curriculum vitae, research interests, and three letters of reference by 1 December to: **Biopsychology Search, Department of Psychology, SUNY-Stony Brook, Stony Brook, NY 11794-2500.** *SUNY-Stony Brook is an Affirmative Action/Equal Opportunity Educator and Employer. AK number 224.*

## POSITIONS OPEN

### FACULTY POSITION Department of Earth and Space Sciences University of California, Los Angeles

The Department of Earth and Space Sciences is seeking an outstanding scientist to fill a tenure-track faculty position in structural geology and continental tectonics. Applicants should be field-oriented geologists, and should be able to integrate field data with at least one of the following: theoretical modeling, tectonic reconstructions, subsurface data, geochronology, and remotely sensed data. Applicants should have completed the Ph.D. and be at early stages of their careers. The successful candidate will participate in teaching field and structural geology at the undergraduate level, and pursue a vigorous research program in continental tectonics. Applicants should send curriculum vitae, summary of research and teaching plans, bibliography, and the names of at least three references to: **Professor Raymond V. Ingersoll, Chair, Structure/Tectonics Search Committee, Department of Earth and Space Sciences, University of California, Los Angeles, CA 90024**, prior to 1 December 1986. Applicants should arrange to have three letters of reference transmitted directly to the above address. *The University of California is an Equal Opportunity/Affirmative Action Employer.*

The Department of Geology is soliciting applications for an anticipated **TENURE-TRACK FACULTY POSITION IN GROUND WATER HYDROLOGY** to begin August 1987. Areas of related interest within the 23-member department include hydrogeology, low temperature geochemistry, isotope geochronology, and environmental chemistry. The successful candidate is expected to develop a strong research program, and teach graduate and undergraduate courses that complement the existing hydrogeology—low temperature geochemistry areas of specialty.

Send letters of application accompanied by curriculum vitae, description of research interests in ground water modeling, and names of three referees to: **Professor Frank T. Caruccio, Ground Water Search Committee, Department of Geology, University of South Carolina, Columbia, SC 29208.** Closing date for applications is 31 December 1986.

*The University of South Carolina is an Equal Opportunity/Affirmative Action Employer.*

### FACULTY POSITION IN ANALYTICAL CHEMISTRY AT IOWA STATE UNIVERSITY

Applications are invited for this position which will become available 1 July 1987. All research areas in analytical chemistry will receive consideration. The appointment probably will be at the level of assistant professor; however, applications at all levels will be considered. Candidates with outstanding potential for, and commitment to, excellence in both research and teaching are sought to join a faculty with a strong tradition of research in analytical chemistry. Candidates with appropriate research interests will also be considered for a joint appointment in the Ames Laboratory—U.S. Department of Energy (USDOE). Applicants should submit curriculum vitae, transcripts, a documented summary of past accomplishments, and an explicit statement of research plans and teaching objectives to: **Professor D. K. Hoffman, Chemistry Department, Iowa State University, Ames, IA 50011.** Junior applicants also should arrange for at least three letters of recommendation to be sent. Evaluations of applications will begin in November 1986. *Women and minority applicants are encouraged to apply. Iowa State University is an Affirmative Action/Equal Opportunity Employer.*

### HUMAN MOLECULAR GENETICIST

The Department of Human Genetics of Virginia Commonwealth University/Medical College of Virginia is seeking applications for a tenure-track assistant professor position. Candidates must have an M.D. or Ph.D. degree, at least 2 years of postdoctoral experience, and a strong background in human genetics. The successful candidate is expected to establish an independent research program and to participate in graduate and postdoctoral training. To apply, send curriculum vitae and three letters of reference to: **Dr. Walter Nance, Box 33 MCV Station, Richmond, VA 23298.**

*Equal Opportunity/Affirmative Action Employer  
Women and minorities encouraged to apply*

## POSITIONS OPEN

**FACULTY POSITION—Immunology.** The Department of Microbiology, University of Texas Health Science Center at San Antonio (UTHSCSA), has a tenure-track faculty position (assistant to full professor) for a person with interest and training in immunology with experience in molecular biology preferred. Candidates with a strong record of research achievement are encouraged to apply. Successful candidates are expected to develop/maintain innovative research programs and to participate in departmental teaching activities. This is an exceptional opportunity to join our expanding department committed to excellence in research and teaching and located in a desirable academic-geographic setting. Applicants should mail curriculum vitae, a statement of current and future research goals, and arrange to send three letters of reference by 31 January 1987 to: **Dr. Joel B. Baseman, Chairman, Department of Microbiology, University of Texas Health Science Center at San Antonio, 7703 Floyd Curl Drive, San Antonio, TX 78284-7758.** *UTHSCSA is an Equal Opportunity/Affirmative Action Employer.*

**FACULTY POSITION—MOLECULAR GENETICS.** The Department of Microbiology, University of Texas Health Science Center at San Antonio (UTHSCSA), seeks to hire tenure-track faculty members (junior-to-senior appointments) with interests in the regulation of gene expression at the molecular level. Quality of research accomplishments will be the prime determinant in selecting individuals. Potential candidates with strong records of research achievement in the molecular biology-genetics of any biological system (prokaryotic, eukaryotic, or viral) are encouraged to apply. Preference will be given to those who have used both genetic and biochemical approaches to probe fundamental biological phenomena. Successful candidates are expected to develop/maintain innovative research programs and to participate in departmental teaching activities. This is an opportunity for an individual to develop a significant research program in a young and supportive department with excellent facilities. Applicants should mail curriculum vitae, a statement of current and future research goals, and arrange to send three letters of reference by 31 January 1987 to: **Dr. Joel B. Baseman, Chair, Department of Microbiology, University of Texas Health Science Center at San Antonio, 7703 Floyd Curl Drive, San Antonio, TX 78284.** *UTHSCSA is an Equal Opportunity/Affirmative Action Employer.*

### FLOW CYTOMETER OPERATOR Life Science Research Assistant II/III Department of Biological Sciences Stanford University

Responsibilities involve highly sophisticated methods development and data interpretation for biological research involving a Coulter EPICS 753 flow cytometer. Duties include the use of independent initiative and theoretical judgment in the choice of appropriate methods and supervision of instrument maintenance. The research assistant will research the development of new techniques and uses of flow cytometry in various areas of the biological sciences, as well as provide instruction on use of the instrument. Serving as a special resource, the research assistant will act as a consultant to investigators in their use of the flow cytometer, supervise and schedule the use of the instrument, and ensure proper collection and handling of the data. Responsibilities also include maintaining a familiarity with current literature, performing literature searches for manuscript preparation, and providing original research contributions.

Candidates should have a masters of science in molecular biology or related field and/or equivalent experience in flow cytometry theory and instrumentation. Individual should have the theoretical knowledge and interpersonal skills necessary for supervising and interacting with a variety of users (graduate students, postdoctoral fellows, and faculty). Candidates should also have organizational and supervisory skills necessary for scheduling users and for supervising the proper maintenance of the instrument.

Applicants should send résumés to: **Dr. Robert T. Schimke, Department of Biological Sciences, Stanford University, Stanford, CA 94305.** *Stanford University is an Equal Opportunity Employer.*

## KUWAIT UNIVERSITY STATE OF KUWAIT

Kuwait University invites applications for the posts of **Professors, Assistant Professors (Associate)** and **Lecturers (Assistant)** for the academic year 1987/88 tenable for September 1st, 1987, in the following disciplines:

### FACULTY OF SCIENCE (English medium)

<b>Department of Mathematics</b>	Computer Science, Statistics, Mathematics
<b>Department of Physics</b>	Molecular Physics
<b>Department of Chemistry</b>	Physical Chemistry, Organic Chemistry (Spectroscopy): Asst. Prof. or Lecturer
<b>Department of Biochemistry</b>	Biochemical Genetics or Enzymology: Professor or Asst. Prof.
<b>Department of Botany &amp; Microbiology</b>	Palaeobotany
<b>Department of Zoology</b>	Desert Vertebrates, Desert Invertebrates (besides insects), General Animal Physiology, Endocrinology, Chordate Biology

Applications and conditions of service may be obtained from:

**Kuwait University Office**  
3500 International Drive N.W.  
Washington, D.C. 20008

Completed applications, together with representative publications and support documents (non-returnable) are to be sent airmail and received in Kuwait by November 30th, 1986, to:

**Dean**  
**Faculty of Science**  
P.O. Box 5969  
13060 Safat  
KUWAIT

## INJECTABLE BIOPHARMACEUTICAL PRODUCTS— MONOCLONAL ANTIBODIES

Leading independent monoclonal health care products company located in suburban Philadelphia has excellent opportunities available for qualified individuals to actively participate in the evaluation and development of injectable biopharmaceutical products. Positions provide significant potential for professional career growth.

### SENIOR FORMULATION CHEMIST

Senior supervisory position, responsible for the design, implementation, and evaluation of new formulations for intravenous injectable biological products. Participate in strategic decisions concerning product development as a key member of the Biopharmaceutical Chemistry Group. Individuals should possess an advanced degree in health oriented field with 2-5 years experience in protein or pharmaceutical chemistry. Industry background preferable.

### ANALYTICAL CHEMIST

Responsible for the development and validation of analytical methods for diagnostic and therapeutic injectable products. Experience with radioisotopes preferable. Candidate should possess an advanced degree in chemistry with 2-5 years experience in analytical methods, preferably related to regulatory submissions in the pharmaceutical industry.

### QA SPECIFICATIONS DEVELOPMENT SUPERVISOR

Responsible for the development of quality assurance specifications and standard operating procedures for in-process and final testing of parenteral diagnostic and therapeutic products. Close interaction with European manufacturing facility and technology transfer. Candidate should possess at least a B.S. in health oriented field with 2-5 years experience in quality assurance/quality control.

Reply with curriculum vitae indicating position desired to:

**Harvey J. Berger, M.D.**  
**Senior Vice President, Medical Affairs**  
**Centocor, Inc.**  
244 Great Valley Parkway  
Malvern, PA 19355



## NEW RESEARCH OPPORTUNITIES

Stauffer Chemical Company, a subsidiary of Chesebrough-Pond's, Inc., is initiating a program aimed at significant new products for home and personal care. This has created a number of career opportunities at our Eastern Research Center in Dobbs Ferry, NY for persons with special skills and experience and an interest in challenging opportunities.

### Hair Chemist

To be responsible for conducting research on the relationship between hair structure and chemistry as part of a multi-disciplined team of scientists, you must have a Ph.D and a minimum of five years' experience in hair or wool chemistry and technology.

### Skin Biochemist

Ph.D with a minimum of three years' applicable experience in skin structure and biochemistry. You should be capable of conducting fundamental research on changes of skin during aging.

### Cosmetic Scientist

An M.S. or Ph.D in chemistry or biochemistry with a minimum of five years' industrial experience in emulsions, micro-emulsions and surfactant/skin interactions. An understanding of the state-of-the-art for cosmetic treatments of skin is a plus.

### Sensory Physiologist

B.S., M.S. or Ph.D with a minimum of two years' experience in electrophysiology, preferably including peripheral nerve recording, to conduct goal-oriented research in taste transduction.

### Organic Radiosynthesis Chemist

To synthesize radiolabelled compounds for metabolism studies. A Ph.D in synthetic organic chemistry and a minimum of two years' experience with carbon-14 labeling is required.

The Eastern Research Center offers a campus-like professional working atmosphere in a highly accessible, countryside location, 20 miles north of New York City. For prompt, confidential consideration, please send your resume and salary history to: Gary J. DeMunnik, Dept. 104, Stauffer Chemical Company, Eastern Research Center, Dobbs Ferry, NY 10522. Your direct response will receive preferred consideration.

Equal Opportunity Employer M/F

**Stauffer Chemical Company**  
SUBSIDIARY OF Chesebrough Ponds Inc.

## POSITIONS OPEN

**TENURE-TRACK FACULTY POSITION—BIOCHEMISTRY/ORGANIC: ASSISTANT PROFESSOR**, beginning August 1987. Ph.D. in chemistry required, with a strong background in both biochemistry and organic chemistry; beginning at \$27,955 for 9 months, commensurate with experience. Postdoctoral research or teaching experience required. Successful applicant will carry a standard load of 60 percent teaching, 20 percent research, and 20 percent service; instructional duties will involve teaching three 3-hour courses (or equivalent) per semester; supervision of undergraduate research will be expected. The Chemistry Department consists of four full-time faculty with a wide range of research interests, and currently offers a bachelor's degree in chemistry, with a biochemistry option. Plans are being developed to begin a master's degree program in chemistry in the near future; currently the faculty work with some of the graduate students in the Biology Program who pursue advanced chemistry courses. Besides the degree program, the department supports a growing Engineering School, and a School of Nursing and Health Sciences.

Send curriculum vitae, statement of teaching and research goals, and three letters of recommendation, plus graduate transcripts to: **Personnel Services, University of Alaska, Anchorage (UAA), 3211 Providence Drive, Anchorage, AK 99508**. Closing Date, 31 December 1986. *UAA is an Equal Opportunity/Affirmative Action Employer and Educational Institution.*

### FACULTY POSITIONS IN PHYSIOLOGY AND BIOPHYSICS CASE WESTERN RESERVE UNIVERSITY (CWRU)

The Department of Physiology and Biophysics invites applications for tenure-track junior and senior faculty positions. Candidates with strong credentials in intracellular signaling and cellular regulation are especially encouraged to apply; however, outstanding candidates in all areas of cell physiology and biophysics will be given serious consideration.

Terms are highly competitive and appointments provide excellent opportunities to develop strong, independent research programs in newly built state-of-the-art facilities in an expanding department and research community.

Submit curriculum vitae, brief statement of present and proposed research interests, representative reprints, and four references to: **Dr. Antonio Scarpa, Department of Physiology and Biophysics, Case Western Reserve University, 2119 Abington Road, Cleveland, OH 44106**. *CWRU is an Affirmative Action/Equal Opportunity Employer.*

### POSITION IN TROPICAL MARINE PHYCOLOGY A FIELD-ORIENTED EXPERIMENTAL ECOLOGIST

The appointment starts August 1987; 9 months and tenure-track. Appointee participates in general botany, general phycology, and his/her specialty. Appointee must also develop program of ecological research emphasizing field conditions. **MINIMUM QUALIFICATIONS:** Assistant professor—Ph.D. in botany or equivalent in biology; evidence of research productivity and of effective teaching. Associate professor—Ph.D. in botany or equivalent in biology; at least 4 years of service as assistant professor. Evidence of sustained productivity via publications in refereed journals required. Evidence of high quality teaching and professional service also required. Postdoctoral experience desirable. Write: **Dr. S. M. Siegel, Chairman, Department of Botany, 3190 Maile Way, University of Hawaii, Honolulu, HI 96822**. **CLOSING DATE:** 1 December 1986.

*An Equal Opportunity/Affirmative Action Employer.*

**IMMUNOLOGY RESEARCH ASSOCIATE:** North Shore University Hospital, a teaching center of Cornell University Medical College seeks an individual possessing an M.D. or Ph.D. in immunology. The successful candidate must be versatile with T-cell cloning, hybridomas, and flow cytometry to carry out research projects on Acquired Immune Deficiency Syndrome. An academic appointment will be made at a rank dependent upon qualifications. Attractive starting salary and excellent benefits. For immediate consideration, send résumé stating salary history to: **Personnel Department, North Shore University Hospital, 300 Community Drive, Manhasset, NY 11030**. *An Equal Opportunity Employer.*

## POSITIONS OPEN

### IMMUNOLOGY, CELL BIOLOGY FACULTY POSITIONS DEPARTMENT OF MOLECULAR AND CELL BIOLOGY THE PENNSYLVANIA STATE UNIVERSITY

Applications are invited for several tenure-track junior and senior faculty positions in the fields of immunology and cell biology to augment our existing faculty group. Research in the areas of regulation of proliferation and differentiation, lymphokines, growth and regulatory factors, cell-cell interactions, development, and the biology of tumor cells is of special interest. However, outstanding scientists in other areas will also be considered. Candidates for junior positions should have at least 2 years of pertinent postdoctoral experience and will be expected to develop timely and competitive, independent research programs. Candidates for senior positions are expected to be internationally recognized leaders. A wide variety of interactions with our present 32 faculty members is possible in many areas of biochemistry, microbiology, and molecular and cell biology. We provide excellent physical facilities, a stimulating research environment, and competitive salary and benefits. A newly formed Biotechnology Institute supplements the facilities and scientific resources available at Penn State. Applications should consist of curriculum vitae, copies of recent representative publications, and a brief but detailed description of research goals. The applicant should also arrange for three letters of evaluation to be sent directly to us. Applications will be accepted until 15 January 1987, or until the positions are filled thereafter. Submit applications to: **Dr. Jean E. Brechley, Head, Department of Molecular and Cell Biology, 108M Althouse Laboratory, The Pennsylvania State University, University Park, PA 16802**.

*An Equal Opportunity/Affirmative Action Employer*

### INSTRUCTOR OF PHYSIOLOGY

Presently available in the research track (non-tenure) in the Department of Physiology, University of Texas Health Science Center, San Antonio. The position is funded by grant support through 30 November 1988, with the opportunity for competitive renewal. The work entails the study of the maintenance of differentiation of lung cells in oxidant-induced injury, and the elaboration of growth factors, using methods of biochemistry and cell biology. A Ph.D. in biochemistry, cell physiology, structural biology, or a related field is required. Salary is \$21,000, plus fringe benefits. Please contact:

**Dr. Richard J. King, Professor  
Department of Physiology  
The University of Texas Health Science Center  
7703 Floyd Curl Drive  
San Antonio, TX 78284-7756  
Telephone: 512-691-6581**

The position will be filled immediately and those interested in applying should submit curriculum vitae or (preferably) telephone for additional information. The individual would be eligible for promotion through faculty ranks on the research track and could develop an independent research program in areas related to work in this laboratory.

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

**LABORATORY TECHNICIAN.** To participate in studies of the regulation of oncogene expression by biological response modifiers. A background in cell biology and biochemistry is required. Experience in molecular biology and/or recombinant DNA technology preferred. Salary depending on experience. Please send curriculum vitae to: **Dr. Robert M. Friedman, Uniformed Services University of the Health Sciences, Department of Pathology, Bethesda, MD 20814-4799**.

**POSTDOCTORAL RESEARCH ASSOCIATE.** To study mechanisms of regulation of oncogene expression by biological response modifiers. A strong background in cell biology and biochemistry is required. Experience in molecular biology and/or recombinant DNA technology preferred. Salary depending upon experience. Send curriculum vitae, three references, and a statement of research interests to: **Dr. Robert M. Friedman, Uniformed Services University of the Health Sciences, Department of Pathology, 4301 Jones Bridge Road, Bethesda, MD 20814-4799**.

## POSITIONS OPEN

### UNIVERSITY OF NEVADA—RENO DEPARTMENT OF BIOLOGY

THE DEPARTMENT OF BIOLOGY AT UNIVERSITY OF NEVADA—RENO is seeking additional faculty in the Eukaryotic Cell Biology Center. The incoming members would (i) interact with existing faculty in genetics, developmental biology, and ecology, (ii) develop a strong research program, (iii) participate in teaching of biology core program, and (iv) develop/teach graduate course(s) in their specialization. Applications are invited for the following three tenure-track positions:

**Developmental Biologist:** Specialization in cell differentiation/embryogenesis of higher eukaryotes; cellular to organismal approach using modern techniques of molecular biology.

**Evolutionary Biologist:** Specialization at chromosomal/nucleotide or related macromolecular level as applicable to study of evolutionary processes applying molecular biology approach.

**Microbiologist:** Developmental genetics, DNA replication/repair, cell differentiation, mutagenesis, or related specialization employing molecular biology techniques in a eukaryotic microorganisms.

**Qualification:** Ph.D. in specific or related area; postdoctoral experience and strong research background.

**Appointments:** "B" academic year; rank, salary, tenure status, and starting date are negotiable. *Well-established investigators with extramural funding, especially minorities and women, are encouraged to apply.*

Application: Letter of intent, curriculum vitae, transcripts, research plan, and three letters of reference by 19 December 1986 to: **Dr. Baldev K. Vig, Chairman, Department of Biology, University of Nevada—Reno, Reno, NV 89557-0015, Telephone: 702-784-6188**. *An Affirmative Action/Equal Opportunity Employer.*

The University of Michigan Medical School, Department of Anesthesiology may have, from time to time, several positions available at the **INSTRUCTOR THROUGH PROFESSOR LEVEL**. Board-certified or -eligible anesthesiologist qualified to obtain Michigan licensure. Research, clinical, didactic experience necessary. Reply to: Box 174 SCIENCE. *A non-discriminatory, Affirmative Action/Equal Opportunity Employer.*

**MACROMOLECULAR STRUCTURE. RESEARCH ASSOCIATES:** experience required in x-ray structure determination or computational and computer graphic analysis to study macromolecular interactions and protein design. Excellent facilities including rotating anode generators, area detectors, color graphics, CON-VEX supercomputer, SUNs, VAXes, and CRAY connection. Send curriculum vitae and names of three references to: **Elizabeth Getzoff or John Tainer, Molecular Biology Department MB3, Research Institute of Scripps Clinic, La Jolla, CA 92037**.

**MICROBIOLOGY-ECOLOGY-BOTANY.** The Department of Biology, University of Puerto Rico, has three tenure-track positions in one or more of the following areas: (i) soil microbiology, (ii) nutrient cycling, (iii) disturbance and succession, (iv) belowground processes, (v) plant systematics or morphology/development. Fluency in Spanish is desirable, but not required. Ph.D. required. Postdoctoral experience is desirable. Applicants should submit curriculum vitae, statement of research interests, and names, addresses, and telephone numbers of three references by 8 December 1987 to: **Ned Fetcher, Department of Biology, University of Puerto Rico, Rio Piedras, PR 00931**.

**MOLECULAR VIROLOGIST.** New 12-month, tenure-track position available at assistant-professor level for scientist with research experience in molecular biology of viruses and with recombinant virus vectors. This is an 80 percent research position with technician provided. Interested applicants should send curriculum vitae, outlining research interests, academic training, experience, publications, citizenship, and names and addresses of three references to: **Dr. R. E. Bradley, Chairman, Search Committee, Box J-137, JHMH, Department of Infectious Diseases, College of Veterinary Medicine, University of Florida, Gainesville, FL 32610**. Application deadline: 31 October 1986.

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



## DIRECTOR ATMOSPHERIC ANALYSIS AND PREDICTION DIVISION

The National Center for Atmospheric Research (NCAR) invites applications and nominations for the position of Director of the Atmospheric Analysis and Prediction (AAP) Division. Research in AAP is focused on theoretical and observational studies of the dynamics and thermodynamics of the atmosphere and the oceans, and interactions among the atmosphere, the oceans, land surfaces, and the biosphere. Much of AAP's research is carried out in collaboration with university colleagues or as part of various national and international programs. The division has a staff of approximately 85 and an annual operating budget of approximately \$5 million.

The Director of AAP ensures the scientific productivity, creativity and excellence of the division; formulates and executes long and short-range plans; oversees the operation, management and development of the division; and ensures the AAP contributes actively to national, international, and inter-institutional efforts in fundamental research. As a member of the NCAR management team, he/she participates actively in NCAR strategy, policy, and administrative matters.

**REQUIRES:** Ph.D. in atmospheric, ocean or related physical science or an equivalent combination of education and research experience; international recognition for scientific leadership in areas of AAP interest, as demonstrated by a research record of depth and breadth sufficient to provide long-term leadership of the division, and sufficient to qualify for appointment as a Senior Scientist at NCAR; demonstrated understanding of the effective management and leadership of a complex research organization, including effective resource planning and utilization; skill in directing, developing and evaluating staff; and strong communication skills. We request that letters of application or nomination be sent as soon as possible, and no later than 20 November. Applications or equivalent expressions of interest should be accompanied by a resume and publications list. Please send letters to: **Dr. Richard A. Anthes, Director, National Center for Atmospheric Research, P.O. Box 3000, Boulder, CO 80307.**

NCAR is operated by the 55-institution University Corporation for Atmospheric Research, an equal opportunity, affirmative action employer, under the sponsorship of the National Science Foundation.

**NCAR**  
National Center  
for Atmospheric Research

## SENIOR RESEARCH PHARMACOLOGISTS

The LILLY RESEARCH LABORATORIES, a division of Eli Lilly and Company, is seeking candidates for Senior Research Pharmacologist positions in the areas of:

### Gastrointestinal Pharmacology

Applicants must have a doctoral degree in pharmacology or physiology with experience in gastrointestinal research; post-doctoral training employing isolated systems or animal models for the study of G.I. function is desired. The candidate should have a keen interest in understanding the molecular basis of drug actions. The successful candidate will be responsible for the development of a research program aimed at the discovery of novel agents for the treatment of G.I. disease.

### Cardiovascular Pharmacology

Applicants must have a doctoral degree in pharmacology and an in-depth understanding of the pharmacological mechanisms involved in regulating the cardiovascular system. Experience in the use of *in vitro* smooth muscle techniques or in the development of *in vivo* models of cardiac ischemia, infarction or failure is desired. Postdoctoral experience is preferred. The successful candidate will join a multi-disciplinary research group and will be expected to develop an independent research program aimed at the discovery of novel cardiovascular drugs. Qualified candidates should send their curriculum vitae to:



John W. Crooks  
Manager, College Relations (SRP)  
Eli Lilly and Company  
Lilly Corporate Center  
Indianapolis, Indiana 46285

An Equal Opportunity Employer M/F

## THE LADY DAVIS FELLOWSHIP TRUST

P.O. BOX 1255, JERUSALEM 91904, ISRAEL

### FELLOWSHIPS FOR 1987-88

AT THE HEBREW UNIVERSITY OF JERUSALEM OR  
THE TECHNION ISRAEL INSTITUTE OF TECHNOLOGY, HAIFA  
GRADUATE AND POST-DOCTORAL FELLOWSHIPS

**ELIGIBILITY:** Lady Davis Fellows are selected on the basis of demonstrated excellence in their studies, promise of distinction in their chosen fields of specialization and qualities of mind, intellect, and character.

**APPLICATION INFORMATION:** Graduate candidates may apply during their senior undergraduate year or after they have undertaken study in a graduate school. Post-doctoral candidates may apply not later than 3 years after completion of their doctoral dissertation.

The Fellowships are tenable for one academic year and may be extended for another year.

The grant covers travel, tuition fees, and reasonable living expenses.

### VISITING PROFESSORSHIPS

are intended for candidates with the rank of Full or Associate Professor at their own institution. They are tenable from one semester to a full academic year.

**DEADLINE:** Completed forms in all categories must reach Jerusalem not later than December 1, 1986. Late applications will not be considered.

Candidates, including Israelis abroad, may obtain application forms at the above address. Category of Fellowship should be indicated.



## POSITIONS OPEN

**MOLECULAR BIOLOGIST:** A research position will be available 1 January 1987 in primate lipoprotein biochemistry and metabolism. Position requires a Ph.D. in biochemistry with three or more years of related experience for consideration as assistant scientist. Candidates having less experience will be considered for a postdoctoral appointment. Please send curriculum vitae and names of three references to: **Personnel Manager, Southwest Foundation for Biomedical Research, P.O. Box 28147, San Antonio, TX 78284.**

*Equal Opportunity Employer, M/F*

## MOLECULAR GENETICIST

An opportunity is available for a tenure-track position in the Division of Medical Genetics, Department of Pediatrics, University of Southern California at the Childrens Hospital of Los Angeles. Joint appointment in microbiology or biochemistry and membership in the Norris-University of Southern California (USC) Cancer Center is available. Candidate should have a background in cell biology and molecular genetics, with some interest in inherited diseases.

Send curriculum vitae, representative publications, a statement of interest, and the names of three references to: **John A. Barranger, M.D., Ph.D., Head, Division of Medical Genetics, Childrens Hospital of Los Angeles, Box 54700, Los Angeles, CA 90054-0700.**

*Childrens Hospital of Los Angeles and USC are Equal Opportunity/Affirmative Action Employers.*

## MOLECULAR IMMUNOLOGIST

The University of Chicago

Ben May Laboratory for Cancer Research

The Ben May Laboratory for Cancer Research of the University of Chicago is seeking applicants for a faculty position with a joint appointment in one of the basic science departments. Candidates should have sufficient research experience to demonstrate both significant accomplishment and outstanding promise. We are committed to developing a strong program in the fundamental aspects of the control of growth and differentiation of lymphocytes. Letters of application including curriculum vitae, bibliography, a brief statement indicating research interests, and the names of three references should be sent to: **Dr. Frank Fitch, Director, Ben May Laboratory for Cancer Research, The University of Chicago, 5841 South Maryland Avenue, Chicago, IL 60637.**

**NEUROANATOMIST** with interests in behavior. Postdoctoral experience, expertise in state-of-the-art neuroanatomical techniques, strong publication record, and ability to establish an independent research program are required. Salary and level of appointment at the assistant or beginning associate professor levels commensurate with experience and qualifications. Participation in the Interdisciplinary Graduate Program in Neuroscience and Behavior is expected. Send curriculum vitae and four letters of recommendation by 15 December 1986 to: **Neuroscience and Behavior Search Committee, Department of Psychology, University of Massachusetts, Amherst, MA 01003. The University of Massachusetts is an Affirmative Action/Equal Opportunity Employer.**

## PEDIATRIC IMMUNOLOGIST DEPARTMENT OF PEDIATRICS CEDARS-SINAI MEDICAL CENTER LOS ANGELES, CA

**PEDIATRIC IMMUNOLOGIST:** Cedars-Sinai Medical Center, a 1015-bed, acute-care, and research and teaching hospital affiliated with the University of California, Los Angeles (UCLA), School of Medicine, seeks an academically oriented individual to establish and direct the new Pediatric Immunology Division. The successful candidate would be expected to develop productive programs in research, teaching, and clinical services. Interested individuals should send their curriculum vitae and three letters of reference to:

**David L. Rimoin, M.D., Ph.D.**  
Director, Department of Pediatrics and the  
Medical Genetics-Birth Defects Center  
Cedars-Sinai Medical Center  
Room 4310, 8700 Beverly Boulevard  
Los Angeles, CA 90048

*Cedars-Sinai Medical Center is an Equal Opportunity Employer.*

## POSITIONS OPEN

**NUTRITION.** Tenure-track **ASSISTANT PROFESSOR** position in the **Department of Food Science and Nutrition**, funded by the university's **Food for the 21st Century Program**. Postdoctoral experience in biochemical nutrition and/or cell biology is needed. Candidate expected to develop independent research program in nutrition at the cellular level, participate in the Cell Nutrition Group and in graduate nutrition teaching. Send letter of application including brief outline of potential research, résumé, and names of three references to: **Dr. H. L. Anderson, 10 Gwynn Hall, University of Missouri, Columbia, MO 65211.** Applications accepted through 15 November, or until suitable candidate identified. *Equal Opportunity/Affirmative Action Employer.*

**NUTRITION.** Tenure-track **PROFESSOR** position in the **Department of Human Nutrition**, funded by the university's **Food for the 21st Century Program**. Doctorate and experience related to human nutrition/nutritional sciences with emphasis in basic sciences. Candidate expected to develop and lead research program related to nutrition/metabolism and aging and participate in graduate teaching. Send letter of application, complete résumé, and names of three references to: **Dr. R. P. Dowdy, 217 Gwynn Hall, University of Missouri, Columbia, MO 65211.** Application review begins 15 November and continues until position is filled. *Equal Opportunity/Affirmative Action Employer.*

## PEDIATRIC NEPHROLOGY FELLOW DEPARTMENT OF PEDIATRICS CEDARS-SINAI MEDICAL CENTER LOS ANGELES, CA

**PEDIATRIC NEPHROLOGY FELLOW:** Cedars-Sinai Medical Center, a 1015-bed, acute-care, research and teaching hospital affiliated with the University of California, Los Angeles (UCLA), School of Medicine, is seeking candidates for fellowship in pediatric nephrology. The program offers comprehensive training in all aspects of pediatric nephrology, but will give preference to applicants who seek intensive focused training in laboratory investigation leading to a career as an independent clinical investigator. Interested individuals should send their curriculum vitae and three letters of reference to:

**Dr. Stanley C. Jordan, Director**  
Pediatric Nephrology and  
Transplantation Immunology  
Cedars-Sinai Medical Center  
Room 4310, 8700 Beverly Boulevard  
Los Angeles, CA 90048

*Cedars-Sinai Medical Center is an Equal Opportunity Employer.*

**PHYSICAL OCEANOGRAPHER, MARINE GEOLOGIST.** An assistant or associate professor position is open for a physical oceanographer interested in coastal processes or a marine geologist, preferably a micropaleontologist. The successful applicant will be expected to teach one graduate course per semester, to develop an active research program, and to supervise graduate students. Send letter describing research interests, curriculum vitae, and three letters of recommendation by 15 December to: **Search Committee, Dr. Douglas Y. Shapiro, Department of Marine Sciences, University of Puerto Rico, Mayaguez, PR 00708.**

## POSTDOCTORAL FELLOW/ RESEARCH ASSOCIATE NORTHWESTERN UNIVERSITY MEDICAL SCHOOL

Position available for 2 years to study the effects of state-of-the-art lasers on neural tissue. Studies will examine effect of pulsed lasers on synaptic transmission in a variety of neural systems.

Candidates should have training in bioengineering, biophysics, or cellular neurophysiology. Send résumé and names of three references to:

**Dr. W. Z. Rymer**  
Department of Physiology  
Ward 5-295  
303 East Chicago Avenue  
Chicago, IL 60611

*Northwestern University is an Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

### PLANT BIOLOGY

Over the next 5 years, the **Department of Biology at the University of Utah** anticipates filling several faculty positions in the plant sciences in areas of biochemistry, development, physiology, and genetics. At present, we seek two candidates for regular, tenure-track appointments in these subdisciplines (rank open). The successful candidates will be expected to establish active research programs and to participate in undergraduate and graduate teaching. Our preference at this time is in the areas of plant physiology and plant development; however, the areas of specialization are less important than overall evidence of excellence and outstanding potential. We do hope to appoint two colleagues who can establish productive interactions with existing programs in molecular biology, genetics, and ecology.

Address applications or nominations to:

**Dr. James Ehleringer, Chairman**  
Search Committee  
Department of Biology  
University of Utah  
Salt Lake City, UT 84112

Please send résumé, copies of recent publications, and three letters of reference. The deadline for applications is 15 November 1986.

*The University of Utah is an Equal Opportunity/Affirmative Action Employer. These positions are subject to final budgetary approval.*

**PLANT MOLECULAR BIOLOGIST.** Tenure-track position at assistant professor level beginning 1 September 1987. Teach undergraduate and graduate courses in molecular/cell biology, develop graduate program, and establish a strong research program with external funding. Ph.D. and postdoctoral experience with a botanical background and expertise in modern molecular techniques required. Submit letter outlining botanical and molecular experience, résumé, reprints, and three letters of recommendation by 30 November 1986 to: **Robert Sheath, Search Committee Chair, Assistant Professor, Plant Molecular Biology (020250) position, THE UNIVERSITY OF RHODE ISLAND, P.O. Box G, Kingston, RI 02881. An Affirmative Action/Equal Opportunity Employer, M/F.**

**POSTDOCTORAL ASSOCIATE IN DEPARTMENT OF SURGERY, SECTION OF NEUROSURGERY.** Immediate opening available for brain tumor research project. Prefer applicant have experience in hybridoma technology. Funding guaranteed for 2 years. Send curriculum vitae to: **Joseph Piepmeyer, M.D., Department of Surgery, Section of Neurosurgery, Yale Medical School, P.O. Box 3333, New Haven, CT 06510. Yale is an Equal Opportunity Employer.** Application deadline: 15 November 1986.

### POSTDOCTORAL FELLOW

The Research Department at the **Olin E. Teague Veterans' Center, Temple, TX, 76501** has an opening for a postdoctoral fellow to work with the molecular aging of cell membranes and immunology. A background in membrane protein and glycoprotein structure and function preferred. Position is for 3 to 5 years, with potential of a staff position. Starting salary range \$17,824 to \$21,804. This position is a VA and Texas A&M University position. Contact **THE RESEARCH DEPARTMENT**, telephone: 817-778-4811, extension 5137.

### POSTDOCTORAL MAMMALIAN CELL CULTURE BIOREACTORS

Postdoctoral research associate to work on shear and hydrodynamic effects on mammalian cells in bioreactors. Research involves both anchorage-dependent and suspended cells. Biochemical or biomedical engineering background required. Good knowledge of cell biology or biochemistry and good experimental record required. Previous experience in cell culture desirable, but not necessary. Will interact with two to three graduate students and technician. Salary \$23,000 to \$28,000, depending on qualifications. Send curriculum vitae and names of references to: **Dr. E. T. Papoutsakis, Department of Chemical Engineering, Rice University, P.O. Box 1892, Houston, TX 77251.**

*An Equal Opportunity Employer*

## MOLECULAR BIOLOGY/ BIOTECHNOLOGY

College of Agricultural & Environmental Sciences  
University of California, Davis

The College is developing a strong program in **MOLECULAR BIOLOGY** to complement existing strengths in basic biology and agricultural/environmental sciences. Several faculty and academic staff openings are anticipated over the next few years, including the following tenure-track faculty positions which are available immediately:

### ASSISTANT PROFESSOR/ASSISTANT MOLECULAR BIOLOGIST.

Possible areas are: fundamental studies of gene structure, regulation and expression, biochemical systematics, molecular evolution and molecular bases of insect-host or insect-pathogen interaction. Apply to D. L. McLean, Department of Entomology, by January 9, 1987.

### ASSISTANT PROFESSOR/ASSISTANT GENETICIST.

Strong experimental research programs in the areas of **DROSOPHILA MOLECULAR GENETICS, MOLECULAR EVOLUTION, OR MOLECULAR PLANT GENETICS**. Apply to J. Gillespie, Department of Genetics, by January 1, 1987.

These positions are to be filled at the Assistant Professor 11-month salary level (unless other rank is indicated above). The positions have responsibilities for teaching, advising and research (in the Agricultural Experiment Station). Candidates should have a Ph.D. in an appropriate field and teaching and research experience. Applicants should submit resume, statement of research and teaching experience, list and reprints of publications, and the names and addresses of at least three persons familiar with the applicant's qualifications, to individual and department as noted for position (Department Name), University of California, Davis, CA 95616. Please indicate the position in which you are interested. The completed application must be received by date indicated for each position.

**THE UNIVERSITY OF CALIFORNIA IS AN EQUAL OPPORTUNITY AFFIRMATIVE ACTION EMPLOYER.**

**QUIDEL, a rapidly growing pharmaceutical company in La Jolla, California, invites applicants for the position of**

### SENIOR RESEARCH SCIENTIST/ PROJECT LEADER DIAGNOSTICS

Highly qualified scientist sought to be project leader in development of advanced rapid enzyme immunodiagnostic products. Successful candidate will be talented, well-trained Ph.D. or M.D. with background in monoclonal antibody technology, immunochemistry and biochemistry and a desire to perform bench research. Individual will have demonstrated ability to develop state-of-the-art rapid enzyme immunoassays and bring product through research into development.

#### TECHNICIANS

Research Technicians: Require a bachelors degree in science. For some positions, tissue culture and animal handling experience desired; others require knowledge of routine biochemistry.

Salary is commensurate with background and experience. Excellent benefits package which includes employee incentive stock option program. Send your resume to:

**QUIDEL**  
Attn: David H. Katz, M.D.  
Equal Opportunity Employer



11077 North Torrey Pines Rd., La Jolla, CA 92037

## HYDROGEOLOGISTS/ ENVIRONMENTAL ENGINEERS

Los Alamos National Laboratory, one of the nation's most highly respected multidisciplinary labs, is the site of many complex challenging studies ranging from jet propulsion to bioengineering. Some of the world's most prominent scientists are applying their talents at Los Alamos and making breakthrough achievements at our state-of-the-art facilities.

We are currently seeking Hydrogeologists/Environmental Engineers (two three-year, limited-term positions) who can plan and implement programs for CERCLA and RCRA hazardous waste sites to solve environmental contamination problems and achieve regulatory compliance. You will work in the Laboratory's environmental surveillance group. The positions involve considerable interaction with professionals skilled in hydrogeology, environmental engineering, health physics, air quality and ecology.

To qualify for this key assignment, your background should include a Ph.D. or the equivalent combination of education and direct experience in hydrogeology/environmental engineering with emphasis on environmental matters. The positions require a working knowledge of CERCLA and RCRA hazardous waste sites. Experience in vadose zone and saturated/unsaturated flow monitoring, hazardous waste site modeling and geophysical surveying is preferred. Requires proven ability to analyze and solve hazardous waste site problems.

In return for your specialized skills and your demonstrated communications abilities, we provide a competitive salary and comprehensive benefits package. For immediate consideration, please send your resume to: Chuck Pacheco, MS P280, Personnel Services Division 860468-X, Los Alamos National Laboratory, Los Alamos, NM 87545.

Affirmative Action/Equal Opportunity Employer. U.S. Citizenship Required.



## POSITIONS OPEN

### AGRICULTURAL RESEARCH SERVICE (ARS) UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)

**PLANT PHYSIOLOGIST/BIOCHEMIST.** ARS/USDA, Northern Regional Research Center, Peoria, IL, is seeking a plant physiologist/biochemist for a permanent position to develop a research program that will focus on lipid metabolism in soybean. The goals of the research include identification of the biochemical and molecular genetics which influence the plant cell's capacity to produce lipids.

Knowledge of lipid biochemistry is required and skill in molecular biology techniques is desirable. A Ph.D. or equivalent and appropriate postdoctoral training are required. U.S. citizenship is required. Salary is commensurate with experience, GS-12/13 (\$31,619 to \$37,599). Send curriculum vitae for position 6N-013 by 31 December 1986 to: **Dr. C. G. Crawford, Northern Regional Research Center, USDA, ARS, 1815 North University Street, Peoria, IL 61604.** Information concerning the position may be obtained by telephone: 309-685-4011 extension 550. *The USDA is an Equal Opportunity/Affirmative Action Employer.*

**POSTDOCTORAL POSITION** available to study the molecular basis of specific recognition in plant/microbe interactions. Experience in plant or bacterial molecular biology essential. Studies will focus on the expression of cloned genes in incompatible interactions and early molecular events conditioned by single plant resistance genes. Competitive salary. Send statement of research interests, résumé, and names of three references to: **Dr. Dean W. Gabriel, Plant Pathology Department, University of Florida, Gainesville, FL 32611.**

**POSTDOCTORAL POSITION IN NEUROBIOLOGY** is available immediately for NIH-funded investigation of interneuron control of motor activity in lobsters. Experience with intracellular microelectrode recording techniques required. Send curriculum vitae and names of three references to: **Dr. C. H. Page, Department of Biological Sciences, Rutgers University, Piscataway, NJ 08854.**

### POSTDOCTORAL POSITION

Available immediately to study neurochemistry of cerebrospinal fluid and brain using new multisensor HPLC-EC system [*Clin. Chem.* 30, 1477 (1984)]. This work will include investigation of abnormal forms of serotonin detected in CSF of Alzheimer patients [*Arch. Neurol.* 42, 1158 (1985)]. Experience in HPLC and M.S. desired. Send curriculum vitae and names of three references to: **Dr. Ladislav Volicer, Department of Pharmacology, Boston University School of Medicine, 80 East Concord Street, Boston, MA 02118.** *Equal Opportunity Employer, M/F.*

### POSTDOCTORAL POSITION DEPARTMENT OF BIOCHEMISTRY UNIVERSITY OF ALABAMA AT BIRMINGHAM SCHOOL OF MEDICINE

Applications are invited for a postdoctoral fellow to join a research group of molecular biochemists studying the mechanism of non-immune killing of African trypanosomes by human high density lipoprotein (HDL). Candidates should have a solid background in biochemistry and an interest in working with protozoan parasites. The position is available 1 January 1987, with initial funding for 1 year. Interested persons should send curriculum vitae, a description of research experience, and the names of three references to: **Dr. Stephen L. Hajduk, Department of Biochemistry, University of Alabama at Birmingham, Schools of Medicine and Dentistry, University Station, Birmingham, AL 35294.**

*An Equal Opportunity/Affirmative Action Employer.*

**POSTDOCTORAL POSITION** available immediately for a well-trained recent Ph.D. molecular biologist to work on cloning, sequencing, and expression studies of dengue virus. Position will carry an appointment in the Harvard Medical School. Send curriculum vitae and names of three references to: **Edward O'Rourke, M.D., Jean Patterson, Ph.D., Division of Infectious Diseases, Children's Hospital, 300 Longwood Avenue, Boston, MA 02115.**

## POSITIONS OPEN

### POSTDOCTORAL POSITION

Available immediately for Ph.D. to study the structure and function of transcriptional regulatory proteins in *Kluyveromyces* and *Saccharomyces*. Must have experience in genetic engineering or protein chemistry. Salary: \$17,000. Send résumé and names of three references to: **Dr. Robert Dickson, Department of Biochemistry, University of Kentucky, Lexington, KY 40536.** *Equal Opportunity Employer.*

**POSTDOCTORAL POSITION.** To work on the biophysics of phyllotaxis and the construction of flowers. Two or more of the following skills are sought: cytoskeletal immunofluorescence, EM, light microscopy, hand dissection, and modeling. Position open. Contact: **Paul B. Green, Department of Biological Sciences, Stanford University, Stanford, CA 94305.** Telephone: 415-723-1663.

**POSTDOCTORAL POSITION:** available immediately to study mechanisms of hormone autonomy and hormone action using plant tissue culture systems. Experience in plant hormone analysis, protein isolation and characterization, and/or plant tissue culture preferred. Interested candidates should send curriculum vitae and the names of three references to: **Dr. William L. Pengelly, Department of Chemical and Biological Sciences, Oregon Graduate Center, Beaverton, OR 97006-1999.** *Equal Opportunity Employer.*

**POSTDOCTORAL POSITION, YALE UNIVERSITY, MOLECULAR BIOLOGY OF SODIUM TRANSPORT.** Funded positions available for individuals with background in molecular biology, membrane transport, or physiology, to join multidisciplinary group studying the molecular basis of sodium transport using recombinant DNA methods, including recently cloned genes for Na,K-ATPase subunits. *Yale University is an Equal Opportunity Employer.* Contact: **Dr. E. J. Benz, Jr., or Dr. Joseph Hoffman, Department of Medicine, 802 LCI, P.O. Box 3333, New Haven, CT 06510.** Telephone: 203-785-4153.

**POSTDOCTORAL POSITIONS.** Available in (i) the molecular biology and cloning of proteins which participate in human epidermal differentiation or (ii) in molecular genetics of staphylococcal exoproteins which cause skin injury. Experience in recombinant DNA technology, DNA sequencing, mutagenesis, and prokaryotic cell genetics will be favored. Please send curriculum vitae and three letters of reference to: **Kirk D. Wuepper, M.D., Department of Dermatology, The Oregon Health Sciences University, 3181 SW Sam Jackson Park Road, Portland, OR 97201.**

**POSTDOCTORAL POSITIONS** are available to work on the biochemistry and molecular biology of adrenergic receptors. Studies are in two areas: (i) biochemical mechanisms of regulation of responsiveness, receptor kinase, and so forth, and (ii) molecular biology of adrenergic receptors: cloning, expression, gene structure, and site-directed mutagenesis. Applicants should have strong background in biochemistry and/or recombinant DNA technology. Send curriculum vitae and two to three letters of reference to:

**Dr. Robert J. Lefkowitz and Dr. Marc G. Caron**  
Howard Hughes Medical Institute  
Box 3821  
Department of Medicine  
Duke University Medical Center  
Durham, NC 27710

**TWO POSTDOCTORAL POSITIONS AVAILABLE IMMEDIATELY.** One is to study the biochemical correlates of opiate dependence. The other is to study binding sites which mediate the effect of a new class of anticonvulsant drugs. Both positions are for 2 to 3 years. Salary: \$22,000. Send curriculum vitae and names of three references to: **Dr. Jose M. Musacchio, Department of Pharmacology, New York University Medical Center, 550 First Avenue, New York, NY 10016.** *An Affirmative Action/Equal Opportunity Employer, M/F.*

## POSITIONS OPEN

### U.S. DEPARTMENT OF AGRICULTURE (USDA) AGRICULTURAL RESEARCH SERVICE (ARS)

**POSTDOCTORAL POSITION—PLANT MOLECULAR BIOLOGIST, Photosynthesis Research Unit, Urbana, IL.** ARS is seeking a plant molecular biologist (temporary position) to conduct research on plastid gene transcription. Objective is to identify nuclear-encoded proteins that regulate chloroplast gene expression. Applicants must have a knowledge of protein purification and recombinant DNA techniques. A background in plant physiology or biochemistry is desired. The initial appointment will be for 1 year at the GS-11 level (\$26,381). Candidates must be U.S. citizens. Applications in response to this advertisement must be marked 6N016. Send curriculum vitae and three letters of reference by 10 November 1986 to: **Dr. Emil Orozco, USDA/ARS, Department of Agronomy, University of Illinois, 1102 South Goodwin Avenue, Urbana, IL 61801.** Information concerning the position may be obtained by calling **Dr. Orozco** at 217-333-4370.

*Equal Opportunity Employer*

**POSTDOCTORAL RESEARCH POSITION** available immediately for ongoing projects studying the therapeutic potential of porphyrins and related macrocycles for tumor photodynamics therapy. Ph.D. in biochemistry or pharmacology preferred, with cell biology background. Familiarity with HPLC, TLC, and so forth, needed. Send résumé with description of research experience and/or reprints, and three letters of recommendation to: **Dr. M. K. Birnbaum, Research Department, St. Vincent Medical Center, 2213 Cherry Street, Toledo, OH 43608, or telephone: 419-321-2962.** St. Vincent Medical Center is an affiliated teaching hospital of the Medical College of Ohio. *Equal Opportunity Employer.*

**POSTDOCTORAL RESEARCH ASSOCIATE** position available immediately to study hepatic mechanisms in azoreduction of chemical carcinogens. Multidisciplinary approach will utilize purified enzymes and isolated hepatocytes. Both enzymic and chemical mechanisms will be investigated. Send applications to: **Dr. Walter G. Levine, Department of Molecular Pharmacology, Albert Einstein College of Medicine, Bronx, NY 10461.** *An Equal Opportunity Employer.*

### POSITIONS AVAILABLE ENVIRONMENTAL SCIENCES MONTANA STATE UNIVERSITY (MSU)

**POSTDOCTORAL RESEARCHER—ENVIRONMENTAL SCIENCES,** to work on developing protocols for design and analysis of environmental surveys. Funding is available for at least 1 year, with good prospects for further funding. Required qualifications are (i) knowledge of statistics, database management, scientific programming, and environmental modeling or epidemiology; (ii) ability to communicate technical matters clearly in written reports; and (iii) ability to work independently. Salary starting at \$20,000, depending on experience and qualifications. Interested persons should send a statement of interest, a résumé, and three letters of recommendation to: **Environmental Science Postdoctoral Search, Biology Department (Telephone: 406-994-4548), Montana State University, Bozeman, MT 59717.** Review of applications will begin on 15 October 1986, and continue until a suitable applicant is found. *MSU is an Affirmative Action/Equal Opportunity Employer.*

**Graduate Research Assistantship—Environmental Sciences.** Funding is available for at least 1 year, with good prospects for further funding, for a student seeking a Ph.D. in biological sciences with a concentration in environmental sciences. The projects involve detailed quantitative modeling and statistical analyses of environmental data. Applicants must have a strong background in ecology, statistics, and computers. Applicant must be admissible to MSU College of Graduate Studies. Send a statement of interest, a résumé, transcripts, and three letters of recommendation to: **Dr. Daniel Goodman, Biology Department (Telephone: 406-994-4548), Montana State University, Bozeman, MT 59717.** Review will begin on 15 October 1986, and continue until a suitable applicant is found. *MSU is an Affirmative Action/Equal Opportunity Employer.*

## JUNIOR SCIENTIST

Merck Sharp & Dohme Research Laboratories, a worldwide leader in pharmaceutical research, has an immediate opening for a junior scientist in the Department of Immunology. The successful candidate will participate with a multidisciplinary team of biochemists, molecular biologists and cell biologists on the role of proteases involved in immunological and inflammatory processes.

A B.S. or M.S. degree with experience in protein biochemistry and enzymology is required. Additional experience in tissue culture would be preferred.

Merck Sharp & Dohme Research Laboratories are located in Rahway, New Jersey, approximately 20 miles south of New York City. Our salaries, benefits and growth potential are excellent.

Interested candidates should submit their curriculum vitae, salary requirements and three references in confidence to: **Alaina L. Love, R80MTL1, Merck & Co., Inc., P.O. Box 2000, Rahway, New Jersey 07065.** EEO/AA/VH Employer.



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## CHAIRPERSON and PROFESSOR Department of Microbiology

### The Mount Sinai School of Medicine of the City University of New York

Applications are invited for the leadership position in the Department of Microbiology. This major academic department carries forward a long tradition and an active research program conducted by a well-funded faculty group with wide-ranging interests in molecularly oriented aspects of microbiology, virology and immunology. The Department also has an important role in the training of medical students and of Ph.D., M.D./Ph.D. and post-doctoral fellows. The Department occupies an entire floor of Mount Sinai's Annenberg Tower. This key appointment offers an extraordinary opportunity for administration, research and education in an interactive environment.

We seek a candidate involved in an active research and training program, an interest in medical school teaching activities and demonstrated administrative leadership capability.

**Please send curriculum vitae to Dr. Yale Nemerson, Chairman, Search Committee, The Mount Sinai Medical Center, One Gustave L. Levy Place, New York, NY 10029.** An Equal Opportunity Employer.



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## MOLECULAR BIOLOGISTS

Merck Sharp & Dohme Research Laboratories is currently offering excellent career opportunities for Molecular Biologists to join the Department of Cellular and Molecular Biology. Duties will include the application of a broad spectrum of techniques, such as DNA/RNA preparation, construction and screening of genomic and cDNA libraries, blot analysis, DNA sequence analysis and site-directed mutagenesis, as well as culture and transfection of mammalian cells. These techniques will be applied to the isolation, analysis and expression of genes of potential pharmaceutical interest.

An M.S. or B.S. in Biochemistry or the equivalent with at least 2 years of broad and significant experience in molecular biology are required.

Excellent salary and benefits programs accompany this position in our new research building in Rahway, NJ.

Please send your resume, three professional references whom we may contact, and salary requirements in complete confidence to: **Jack Kueny, Merck Sharp & Dohme Research Laboratories, Rahway, New Jersey 07065.** EEO/AA/VH/Employer.



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## MOLECULAR BIOLOGY RESEARCH SENIOR SCIENTIST

Sandoz Pharmaceuticals Corporation is responsible for products that improve the quality of life. Our developments are the result of research conducted by professionals who specialize in many different fields.

The Sandoz Research Institute is currently seeking a Senior Scientist to play a vital role in molecular biology research. Our position offers a unique opportunity to develop an independent research program utilizing recombinant DNA technology to identify novel therapeutic approaches in one or more of the following areas: diabetes, hypocholesterolemia, monoclonal antibodies and platelet biology. The successful candidate will work closely with interdisciplinary teams of intramural scientists and collaborate with extramural scientists. Responsibilities will initially include supervision of one research scientist.

### The requirements of the position include:

- **Ph.D or equivalent in biochemistry or related discipline with an emphasis on metabolic regulation.**
- **Minimum of 2 years' postdoctoral experience in molecular biology and the control of gene expression.**
- **Record of significant publications in major scientific journals.**
- **Excellent written and oral communications skills.**

Positions at Sandoz offer personal satisfaction, professional opportunity/challenge, competitive salaries and an excellent benefits package. Our campus-like facilities are conveniently located in northern New Jersey.

For prompt consideration, please forward your resume and salary requirements in confidence to:



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The minimum requirement for this position is three years laboratory experience beyond a BS/MS degree in Microbiology or Genetics. Proven laboratory skills in recombinant DNA technology are necessary, & a strong background in microbial genetics is preferred. The ideal candidate will have demonstrated the ability to work independently on relevant projects.

### MICROBIAL GENETICIST/ PHYSIOLOGIST

This position requires 1-2 years laboratory experience beyond a BS/MS in Microbiology or Genetics. Laboratory experience in mutant isolation & characterization is required, plus familiarity with recombinant DNA techniques. Exp. in yeast genetics would be beneficial.

If you would be challenged by an entrepreneurial, results-oriented position with an excellent salary & benefits package, including an opportunity for equity participation, please send your resume immediately to:

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3760 Haven Avenue  
Menlo Park, California 94025

## Mammalian Cell Expression

An opening exists for an individual to work on specific projects concerned with a spectrum of research and development aspects of mammalian cell expression, from vector design to mass culture of cells. A strong cell biology background is required. The qualified candidate will have a Ph.D. and postdoctoral experience in biochemistry or molecular cell/biology.

California Biotechnology Inc. is a rapidly growing biotechnology and drug delivery company engaged in the development of health care products. We offer a stimulating research environment with a competitive compensation and benefits package. For consideration, please forward curriculum vitae and names of three references in confidence to: Human Resources, Dept. MF-PP, California Biotechnology Inc., 2450 Bayshore Parkway, Mountain View, CA 94043. We're an equal opportunity employer.

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# Associate Senior Investigator Immunology

The Immunology and Anti-infectives Therapy Department of Smith Kline & French Laboratories, located in suburban Philadelphia, Pennsylvania, is seeking an Associate Senior Investigator to participate in a Lymphokine Biology research program in an environment designed to foster creative innovative research and to promote personal and professional growth.

The successful candidate will conceive, plan and conduct experimental research to study the biology/mechanism of action of human macrophage activating lymphokine(s) using biochemical and molecular approaches and to participate in the discovery and development of novel opportunities in the area of lymphokines/cytokines.

- Ph.D. in Cell Biology, Molecular Immunology, or Biochemistry with at least two years of postdoctoral experience.
- knowledge and experience in identification, isolation and/or characterization of lymphokines/cytokines and in macrophage biology.
- proven publication productivity.
- excellent oral and written communication skills.
- ability to interact with a multidisciplinary research team.

We offer excellent compensation and benefits and an attractive relocation policy. For confidential consideration, send your C.V. and names of three references to Robert F. Obst, R&D Employment Consultant, SmithKline Beckman Corporation, 1554 Spring Garden Street, Philadelphia, PA 19101. We are an Equal Opportunity Employer, M/F/H/V.

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**Yale** UNIVERSITY

## MAMMALIAN DEVELOPMENTAL BIOLOGIST

*Department of Biology*

Yale University Department of Biology wishes to appoint a junior level Mammalian Developmental Biologist. We seek enthusiastic and able teachers with distinguished research records. The successful applicant should be able to teach at undergraduate and graduate levels, carry on a vigorous research program and supervise the research of graduate students and post-doctoral fellows.

Send curriculum vitae, description of research interests and names of at least three references by December 1, 1986 to: Chairman, Department of Biology, Yale University, P.O. Box 6666, New Haven, CT 06511.

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## Senior Research Scientist/ Principal Scientist

Hands-on development and validation of analytical methods for proteins, monoclonal antibodies and recombinant DNA products. Duties also include analytical support of formulations developed using these compounds. Knowledge of GLP's and preparation of validation reports are important. You will need a Ph.D. in analytical chemistry or a related field and you must offer 3-5 years' (minimum) related experience in appropriate techniques, including: HPLC, electrophoretic techniques, etc. (Dept. 30A)

## Research Associate

Analytical testing of drug substance and formulation for purity and stability evaluation of proteins, monoclonal antibodies and recombinant DNA compounds. You will also assist in conducting experiments in support of method validation for these products. Requirements include a B.S. or M.S. degree and 3-5 years' experience in HPLC, electrophoretic techniques and wet chemistry methods utilized for proteins. (Dept. 30B)

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**POSTDOCTORAL POSITION IN CEREBRAL BLOOD FLOW REGULATION** available immediately for 2 years. NIH-funded project with competitive salary. Research will involve studying a novel aspect of normal cerebral blood flow regulation and its application to cerebral ischemia. Techniques for cerebral blood flow include quantitative double label autoradiography and micro-thermal conductivity. Send curriculum vitae, a summary of research interests, and three references to: **Dr. S. C. Jones, Department of Brain and Vascular Research, FF2-31, Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44106-4775.**

### POSTDOCTORAL RESEARCH ASSOCIATE JOB ORDER NUMBER 656246 40 hours per week; \$19,000 per year

Performing high-resolution, single-crystal x-ray studies on inorganic complexes using automated x-ray diffractometers; computer processing of data; development of computer software for theoretical analysis of experimental results; and preparing manuscripts for presentation and publication in scientific journals. Education, training, and experience required: Ph.D. in inorganic chemistry; graduate level education in the field of x-ray crystallography; experience in the use of automated single crystal diffractometers; experience in computer processing of scientific data; writing ability to prepare papers for presentation and publication. Send résumé and three letters of recommendation.

Contact: **Louisiana Office of Employment Security, 617 St. Charles Avenue, New Orleans, LA 70130.**

**POSTDOCTORAL RESEARCH ASSOCIATE POSITION** is available to study transcription and RNA processing in archaebacteria. Experience in molecular biology and/or protein chemistry is desirable. Send curriculum vitae and three letters of reference to: **Dr. Ramesh Gupta, Medical Biochemistry, Neckers Building, Southern Illinois University, Carbondale, IL 62901. An Equal Opportunity/Affirmative Action Employer.**

## POSITIONS OPEN

**POSTDOCTORAL RESEARCH ASSOCIATE:** A 3-year position is available for research on drug abuse and brain development. Prior experience in ultrastructure, morphometric analysis, and neuroanatomy desired. Other positives: training in toxicology, development, analytical, and/or neurochemistry. Apply to: **Richard C. Wiggins, Neurobiology and Anatomy, University of Texas Medical School, P.O. Box 20708, Room 7046, Houston, TX 77225. Equal Opportunity/Affirmative Action Employer; women and members of minority groups encouraged to apply.**

**POSTDOCTORAL RESEARCH ASSOCIATE** position is immediately available with the United States Department of Agriculture (USDA), Agricultural Research Service (ARS), for biochemical and physiological studies of insect response to postharvest pest control methods and insect-plant interactions. Starting salary is \$26,381. Must be a U.S. citizen and available by January 1987. For information on the research program and application instructions, contact: **Dr. Victoria Y. Yokoyama on telephone: 209-487-5334, or write USDA, ARS, HCRL, 2021 South Peach Avenue, Fresno, CA 93727. An Affirmative Action/Equal Opportunity Employer.**

**POSTDOCTORAL RESEARCH ASSOCIATE—**Position available immediately for Ph.D. in biochemistry. Proficiency in basic biochemistry essential. Expertise in carbohydrate chemistry, photoaffinity labeling, and/or glycolipids highly desirable. Research will involve studying the specific molecular mechanisms of bacterial adherence in the oral cavity. Duties will include identification, characterization, and purification of bacterial surface receptors. Send curriculum vitae, letters of reference, and description of research interests to: **Dr. Patricia Murray, Department of Stomatology, HSW-661, University of California, San Francisco (UCSF), CA 94143-0515. UCSF is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.**

## POSITIONS OPEN

**POSTDOCTORAL RESEARCH ASSOCIATE** position is available immediately for study of the molecular basis for antiviral activity. Experience with retrovirus and/or herpesvirus, as well as a knowledge of enzymology and nucleic acid biochemistry, is required. Send curriculum vitae and three letters of recommendation to: **Dr. W. H. Prusoff, Department of Pharmacology, Yale University School of Medicine, 333 Cedar Street, New Haven, CT 06510.**

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**POSTDOCTORAL/RESEARCH ASSOCIATE POSITION** available immediately to study the gene regulation of opiate biological receptors and peptides. Background in molecular biological techniques is desirable. Please send curriculum vitae and two references to: **Dr. R. Suzanne Zukin, Department of Neuroscience, Albert Einstein College of Medicine, 1300 Morris Park Avenue, Bronx, NY 10461. An Equal Opportunity Employer.**

**POSTDOCTORAL RESEARCH IN PLANT TERPENOID BIOCHEMISTRY—**Openings in the areas of bioorganic chemistry/enzymology/protein chemistry will be available in early 1987. Salary commensurate with background and experience. Send complete résumé with names of three references to: **Rodney Croteau, Institute of Biological Chemistry, Washington State University (WSU), Pullman, WA 99164-6340. WSU is an Equal Opportunity/Affirmative Action Employer.**

**UNIVERSITY OF GUELPH, Department of Molecular Biology and Genetics. PRE- AND POSTDOCTORAL POSITIONS** available for studies on the molecular biology of ribosome biogenesis in eukaryotic systems and the role of mRNP particles in gene expression. Teaching opportunities available. Please send curriculum vitae and names of three referees to: **Professor Bruce H. Sells, Department of Molecular Biology and Genetics, University of Guelph, Guelph, Ontario, Canada N1G 2W1.**

## Protein Chemist

A research position is currently available in our Neuroscience group for an imaginative protein chemist. Applicants should have a Ph.D. degree, extensive experience in protein and peptide purification, and facility with modern analytical techniques. Qualified candidates with or without a neurobiology background are invited to apply.

Cal Bio is a rapidly growing biotechnology and drug delivery company engaged in the development of health care products. We offer a stimulating research environment with a competitive compensation and benefits package. Qualified candidates should submit curriculum vitae to: **Human Resources, Dept. MFPC, California Biotechnology Inc., 2450 Bayshore Parkway, Mountain View, CA 94043. We're an equal opportunity employer.**

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## Senior Biopharmaceutical Scientist Protein Chemist

Leading independent monoclonal health care company located in suburban Philadelphia has excellent opportunities available for highly qualified and innovative senior scientists to work as key members of Centocor's multidisciplinary investigational team exploring the use of murine and human monoclonal antibodies as *in vivo* diagnostic and therapeutic agents. Participate in strategic decisions concerning product development. Successful candidates should have hands-on experience in purification and digestion of monoclonal antibodies. Additional experience in protein chemistry or pharmaceutical development would be beneficial. Individual should possess a Ph.D. degree in protein chemistry or biochemistry with at least three years experience. Position provides significant potential for professional career growth. Reply with curriculum vitae to:

**Harvey J. Berger, M.D.  
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Malvern, PA 19355**



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## ENDOWED PROFESSORSHIP IN CANCER OR IMMUNOLOGY

The University of Cincinnati and the State of Ohio have created an endowed professorship in the area of Mammalian Gene Regulation (Cancer) and/or Molecular Immunology. This professorship, named the Ohio Eminent Scholar, is designed to add an outstanding scientist to the Department of Microbiology and Molecular Genetics in the College of Medicine. The department has well established programs in molecular genetics and the Eminent Scholar will fulfill a pivotal role in expanding strength and interactions in the named area(s). The University of Cincinnati is a comprehensive university in the state system. Curriculum vitae should be sent to:

**Dr. Jerry B. Lingrel**  
Department of Microbiology and  
Molecular Genetics  
University of Cincinnati  
College of Medicine  
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Postdoctoral positions are available in the Cell Biology Group at the Worcester Foundation for Experimental Biology, supported by an NIH Training Grant and individual investigator awards. The faculty and their research interests are:

**Earl Baril:** Enzymology of eukaryotic DNA replication

**Edward Berger:** Cell-cell interactions and differential gene expression in Dictyostelium

**William Crain:** Gene expression in embryos

**Grant Fairbanks:** Organization and function of erythrocyte and sperm plasma membrane

**Clare O'Connor:** Protein modifications during gametogenesis; development of cell polarity

**Thor Pederson:** Transcription and RNA processing

**Joel Richter:** Transcriptional and translational regulation in *Xenopus* oocytes

**Harriet Robinson:** Retroviruses, oncogenes, viral and host genes in pathogenesis

**Greenfield Shuder:** Timing and molecular control of mitotic events during early development

**David Steffen:** Murine leukemia virus gene expression and oncogenicity

**Richard Vallee:** Biochemical, immunological and molecular biological analysis of microtubules

**Samuel Wadsworth:** Structure and function of *Drosophila* oncogenes, growth factors and receptors

**George Witman:** Generation and control of flagellar movement in *Chlamydomonas* and mammalian sperm

**David Wolf:** Diffusion and control of membrane regionalization; sperm maturation and capacitation

**Paul Zamecnik:** Synthesis of modified oligonucleotide for chemotherapy

**Carol Ziomek:** Membrane structure and cell polarity in early mouse development

The institute is founded on a strong basic research philosophy and fosters an open, collegial environment conducive to scientific interactions.

Send curriculum vitae, names of references, and indicate faculty member(s) of interest to: **Cell Biology Group, Position ID #T2, C/O Personnel Office, Worcester Foundation for Experimental Biology, 222 Maple Avenue, Shrewsbury, MA 01545, USA.**



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**POSTDOCTORAL SCIENTISTS.** Three positions now available. First requires a Ph.D. in immunochemistry or virology with background in idiotype networks and immunoregulation to participate in research in idiotypes and AIDS under direction of **Dr. Ronald Kennedy**. The second position requires a Ph.D. in immunology and experience in cellular aspects of synthetic peptides or vaccines to study synthetic peptides and hepatitis B virus under direction of **Dr. Gordon Dreesman**. The third position is for an immunopharmacologist who will conduct research with **Dr. Tran Chanh**. Ph.D. experienced in immunology of toxins is desired, but persons with a Ph.D. in pharmacology without immunology experience will be considered. Please mail curriculum vitae with names of three references to: **Personnel Manager, Southwest Foundation for Biomedical Research, P.O. Box 28147, San Antonio, TX 78284. Equal Opportunity Employer, M/F.**

### PROTEIN CHEMIST

An opportunity is available for a biochemist with experience in protein structure studies. Candidate must have a doctoral degree in biochemistry and a minimum of 5 years of experience in the field of protein chemistry. Must be accomplished in the preparation of proteins and peptides by modern HPLC methods and the analysis of their composition and primary sequence. Must be experienced in the use of gas phase sequencer. Must be experienced in the use of computers to predict structure. Position is located in the Division of Medical Genetics, Department of Pediatrics, University of Southern California at Childrens Hospital of Los Angeles. Joint appointment in biochemistry is available. Excellent opportunities are available for collaboration and extension of interests to challenging cell biologic questions of protein translocation and membrane integration. Salary, academic rank, and tenure status are determined by experience and record of productivity. Send curriculum vitae, representative publications, statement of research interests, and names of three references to: **John A. Barranger, M.D., Ph.D., Head, Division of Human Genetics, Childrens Hospital of Los Angeles, 4650 Sunset Boulevard, Los Angeles, CA 90027.**

*Childrens Hospital of Los Angeles and the University of Southern California are Affirmative Action Employers.*

**PSYCHIATRIST** with clinical and research interests and experience to be **ASSOCIATE DIRECTOR OF OUTPATIENT SERVICES**, and to help strengthen both research and clinical activities. The Department of Psychiatry at Medical College of Pennsylvania/Eastern Pennsylvania Psychiatric Institute (MCP/EPPI) is a rapidly expanding research and training facility, and we are particularly interested in broadening outpatient clinical research. Candidates should qualify for appointment at the assistant or associate professor level at MCP. Expertise in affective or anxiety disorders preferred. Send curriculum vitae to: **Michael Feinberg, M.D., Ph.D., Director of Outpatient Services, Department of Psychiatry, Medical College of Pennsylvania, 3200 Henry Avenue, Philadelphia, PA 19129; telephone: 215-842-4208.**

### RESEARCH ASSOCIATE

**Cornell University, Division of Nutritional Sciences**, is seeking candidates for the position of **research associate**. This position will include 70 percent time for research and program planning for nutritional surveillance activities and 30 percent time for a proposed epidemiological study relating Vitamin A deficiency to child mortality.

The candidate must have a doctoral degree in an appropriate area, such as nutrition, food policy, economics, epidemiology or demography, a minimum of 2 years of postdoctoral research or field experience in any of the above areas, and a demonstrated ability to publish work in scientific journals. Work experience in one or more developing countries is necessary. Direct experience in designing and implementing a large epidemiological, nutritional, or socioeconomic survey is highly desirable. Strong quantitative data analysis and micro-computing skills are required, as is the ability to communicate effectively with persons in various institutional structures. Some travel (both domestic and international) will be necessary. Send curriculum vitae, transcripts, and letters of reference to: **Dr. M. C. Nesheim, Division of Nutritional Sciences, 124 Savage Hall, Cornell University, Ithaca, NY 14853. Cornell University is an Equal Opportunity, Affirmative Action Employer/Educator.**

## POSITIONS OPEN

**The Department of Radiology at the Medical College of Virginia in Richmond, Virginia**, is seeking a qualified individual for a **POSITION** in our **RADIATION PHYSICS DIVISION**. The candidate should have a Ph.D. in chemistry/biochemistry with postdoctoral research experience in related areas. Individual with a strong background in synthetic organic chemistry, experience in protein purification and modification, and drug conjugation to carrier molecules will be preferred. The position requires developing novel approaches for drug targeting and tumor imaging. Submit curriculum vitae to:

**Panos Fatouros, Chairman  
Department of Radiology  
Medical College of Virginia  
Box 470  
Richmond, VA 23298**

All curriculum vitae must be received by 1 November 1986. *MCV is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

**RESEARCH CHEMIST** to conduct basic research in organic chemistry including work on selective alkylation of phenolics and condensation reactions between aromatic amines and carbonyl compounds; to conduct methodology development research to investigate novel organic molecules resulting from synthetic research; and to establish reliable analytical methods and develop new products related to xanthophyll chemistry. Salary \$22,000 per year. M.S. in chemistry. Experience (on-the-job or coursework) in organic compounds synthesis, in molecular structure, and in experimental design; experience (on-the-job or coursework) with liquid chromatography, gas chromatography, spectroscopy, including infrared spectroscopy, mass spectroscopy, and UV-visible spectroscopy and with microcomputers; publications. Send résumés to: **Iowa Job Service, 150 Des Moines Street, Des Moines, IA 50309, number 1622607.**

### RESEARCH SCIENTIST OR RESEARCH ASSISTANT PROFESSOR UTAH STATE UNIVERSITY (USU)

Temporary position with funding available through 8 September 1988. Continuation contingent upon EPA funding. **Salary range:** \$29,000 per year minimum. **Duties:** Project support in design and implementation of research programs on the response of surface waters to acidic deposition. Analyze and interpret research output on aquatic and terrestrial ecosystem processes. Ph.D. in environmental science, fisheries, or closely allied discipline. Demonstrated knowledge of the principles, theories, practices, and methodologies of aquatic chemistry and biology, especially with respect to the effects of acidification on fish. Technical management experience and strong writing skills desirable. M.S. degree with considerable experience will be considered. Submit a detailed professional curriculum vitae and the names of at least three references by 1 December 1986 to: **JAY J. MESSER, ENVIRONMENTAL PROTECTION AGENCY, 200 SW 35th Street, Corvallis, OR 97333.**

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### ROOT BIOLOGIST

**The Department of Organismic and Evolutionary Biology of Harvard University** is continuing the search for a root biologist with interests and expertise in root-microbial interactions. The position as assistant professor of biology is available for appointment beginning 1 July 1987. The position can be based either in Cambridge or at the Harvard Forest in Petersham. Applicants should be trained in vascular plant physiology, preferably with experience in symbiotic microbial associations with higher plants, soil microorganisms, and/or soil science. Teaching will include course and individual instruction in plant physiology and the field of specialization. A letter of application describing research and teaching experience with curriculum vitae, and, separately, three letters of recommendation should be sent to: **Chairman, Root Physiology Search Committee, Department of Organismic and Evolutionary Biology, Harvard University, 26 Oxford Street, Cambridge, MA 02138, by 15 December 1986.**

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## POSITIONS OPEN

**POSTDOCTORAL FELLOW: THE UNIVERSITY OF MIAMI DEPARTMENT OF PATHOLOGY** is seeking a Ph.D. (preferably in pharmacology, neuroscience, or related field) for a 2-year appointment to study astrocytes in pathological conditions. Interested applicants should send their curriculum vitae and three references to: **Michael Norenberg, M.D., Department of Pathology, University of Miami School of Medicine, P.O. Box 016960 (R-5), Miami, FL 33101.**

### RESEARCH ASSOCIATE/ POSTDOCTORAL POSITIONS

Insulin/growth factor regulation of tyrosine/serine phosphorylation. Experience preferred in protein purification, fragmentation, analysis, and recombinant DNA techniques including expression in mammalian cell culture. Salary commensurate with experience. Send curriculum vitae and three letters of support to: **J. Avruch, Howard Hughes Medical Institute, Diabetes Unit, Massachusetts General Hospital, Boston, MA 02114.**

**Immediate Multiple Positions: SCIENCE DIRECTOR; AND RECOMBINANT, MONOCLONAL, AND TISSUE CULTURE SCIENTISTS; AND FDA PRODUCTION MANAGER.** Start-up biotechnology company has a major recombinant product; doing R&D with Fortune 100 company, including earth orbit applications in space. Clinicals start soon. Applicants to be: quality people, positive, good-natured, result-oriented, self-starting, committed to private sector, and have the "right stuff". Prefer experience with marrow growth factors such as EPO, CSF, GM-CSF. This is a rare ground floor opportunity. Join us. **Résumé to:**

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### PRINCETON UNIVERSITY PLASMA PHYSICS LABORATORY

**Princeton University and the Plasma Physics Laboratory (PPPL)** are seeking candidates for **senior tenured appointments** to be made in appropriate academic departments of the university. Preference will be given to candidates with distinguished records of research in plasma physics, in closely related subfields of physics, or in allied disciplines in the physical sciences, mathematics, or engineering. Please send a letter of application and curriculum vitae to: **Professor Thomas H. Stix, Associate Director for Academic Affairs, Princeton Plasma Physics Laboratory, Post Office Box 451, Princeton, NJ 08544. Closing date, 15 December 1986.**

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### SKIN CELL BIOLOGIST

Managerial experience and detailed knowledge of human skin cell biology required. Skin cell pathology, dermatology, or toxicology training desirable. Minimum of 5 to 7 years of postdoctoral experience preferred.

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# RESEARCH BIOLOGIST

Merrell Dow Research Institute has an immediate need for a Research Biologist in our biochemical sciences division located in Cincinnati, Ohio. The applicant must possess a BS or MS degree with relevant research experience in biochemistry, pharmacology or biology. Our laboratory is primarily involved in the study of polyamine biosynthesis and function in parasitic protozoa. Experience with enzyme assays, HPLC, cell culture techniques and small animal handling is desirable.

We offer excellent compensation, comprehensive benefits and relocation assistance. Please send your resume with names and address of references in confidence to:

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**TUMOR BIOLOGIST(S)** to direct research and animal testing relative to macrophage activation, NK cells and LAK cells.

**ORGANIC CHEMIST(S)** - Experience in the purification of natural products and/or synthesis of organic compounds and protein-drug conjugates.

Candidates with 2-3 years post-doctoral experience and senior level candidates are invited to apply. Candidates must be able to work independently. Compensation commensurate with experience. Send resume, bibliography, career goals, and names of three references to: **GERALD VOSIKA BIOLOGICAL THERAPEUTICS, INC.** 3505 Riverview Circle Moorhead, MN 56560

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The successful candidate will receive a competitive salary and benefits package as well as the opportunity for substantial equity participation. **This is a rare opportunity to participate in the formation of a major new company.** For confidential consideration, please submit your resume to Box 179 SCIENCE. An equal opportunity employer.

## POSITIONS OPEN

**RESEARCH ASSISTANT PROFESSOR: THE UNIVERSITY OF MIAMI DEPARTMENT OF PATHOLOGY** is seeking a candidate for the study of astrocytes in pathological conditions. Applicants must have a Ph.D., preferably in pharmacology, neuroscience, or a related field. Prior experience with receptor binding, tissue culture, and biochemistry is desired. Please send curriculum vitae and three references to: **Michael Norberg, M.D., Department of Pathology, University of Miami School of Medicine, P.O. Box 016960 (R-5), Miami, FL 33101.**

**SCIENTIFIC DIRECTOR—The American Red Cross Blood Services, Northwest Ohio Region**, invites application to establish/direct a research and development department. Candidate must hold a Ph.D. in a biological science, and experience in blood, tissue, or organ preservation is essential. Faculty appointment at assistant/associate professor level at local medical school is available and encouraged. Send curriculum vitae to: **American Red Cross, 2275 Collingwood Boulevard, Toledo, OH 43620. Equal Opportunity/Affirmative Action Employer.**

## TWO BIOLOGY FACULTY POSITIONS

As part of a continuing program of growth and development, the **Boston College Biology Department** plans to fill two tenure-track positions at the assistant professor level by September 1987. One appointment will be in the area of mammalian physiology, and the other in the areas of virology, immunology, or molecular biology. See our ad in the 10 October *Science* for details.

We offer a competitive salary and start-up funds. Candidates should have a Ph.D. and several years of postdoctoral experience. Applications, including three letters of reference solicited by the candidate, should be submitted by 1 December 1986 to:

**Chairman, Biology Search Committee  
Biology Department  
Higgins Hall  
Boston College  
Chestnut Hill, MA 02167**

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## ARKANSAS SCIENCE AND TECHNOLOGY AUTHORITY (ASTA) VICE PRESIDENT OF RESEARCH

Responsible for managing grants programs emphasizing basic and applied scientific research and technology transfer. The successful applicant will be self-motivated and knowledgeable about basic and applied research, technology transfer, and commercialization of technology. Minimum requirements: Ph.D. in a field of science or engineering, 3 years of research/research management experience beyond the Ph.D. Send curriculum vitae and three references by 31 October 1986 to: **Dr. Patricia Troth, ASTA, 200 Main Street, Suite 210, Little Rock, AR 72201.**

**ZOOLOGIST: THE UNIVERSITY OF THE SOUTH** is seeking a one-semester sabbatical leave replacement to teach comparative anatomy and an introductory biology course, spring semester 1987. The University of the South, a strong liberal arts college of about 1000 students, is located on the Cumberland Plateau 50 miles west of Chattanooga. Contact: **George S. Ramseur, Chairman, Biology Department, The University of the South, Sewanee, TN 37375.**

## PROGRAM

### CAREER CHANGE OPPORTUNITY

This unique program offers the candidate with a doctorate-level degree in science, the opportunity to earn the doctor of optometry (O.D.) degree in two calendar years. Employment opportunities exist in private practice, industry, education, and research. Contact: **Dr. D. M. Chauncey, Ph.D.-O.D. Program Director, The New England College of Optometry, 424 Beacon Street, Boston, MA 02115; telephone: 617-266-2030, extension 147.**

## ANNOUNCEMENT

### ANNOUNCEMENT

**The International Foundation For Ethical Research**, a public nonprofit society, is pleased to announce a new program of funding of research and fellowship support. The foundation has as its primary purpose the discovery and promotion of scientifically valid alternatives to the use of animals in research, testing, and teaching. Fellowship stipends will range from \$18,000 to \$24,000 while annual research support will not exceed \$50,000. Additional information is available by request to: **Dr. James A. Stewart, Executive Director, IFFER, 1 State Street, Suite 1050, Boston, MA 02109; telephone: 617-523-1364.**

## FELLOWSHIPS

### POSTDOCTORAL FELLOWSHIPS

**Nuclear Magnetic Resonance  
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Several immediate openings exist for postdoctoral fellows with backgrounds in polymer science, chemistry, chemical engineering, or physics. The positions are in the **Liquid Crystal Polymer Research Center** recently established at the University of Connecticut. Applicants will be considered until all positions are filled and should send a résumé and telephone numbers of references to:

**Edward T. Samulski  
LCP Research Center  
U-136 Institute of Materials Science  
University of Connecticut  
97 North Eagleville Road  
Storrs, CT 06268**

*The University of Connecticut is an Affirmative Action/Equal Opportunity Employer. (Search number 7G132)*

### POSTDOCTORAL FELLOWSHIPS

**The Hipple Cancer Research Center**, a rapidly developing, philanthropically supported, community-based research center extends challenging career development opportunities to exceptionally qualified postdoctoral candidates in the laboratories of either:

**Dr. J. Peter Fuhrer, Center Scientist**, who investigates the relationship of tumor antigen structure to human tumor immunity, and the regulation of cell surface and secreted antigens and their expression in normal and neoplastic cells; or

**Dr. Marvin D. Bregman, Center Scientist**, who pursues the cell biology and biochemistry of hormones in the regulation of the polyamine pathway in human melanocytes and melanoma.

Candidates should be recent Ph.D. graduates in biochemistry, immunology, or molecular biology with interest in molecular structure and function of glycoproteins; have experience in protein and peptide chemistry and enzyme kinetics; knowledge of HPLC techniques useful.

Send letter describing interests, including curriculum vitae and the names of three references, to:

**Human Resource Coordinator  
Hipple Cancer Research Center  
4100 South Kettering Boulevard  
Dayton, OH 45439-2092**

*The Hipple Cancer Research Center is an Equal Opportunity/Affirmative Action Employer offering competitive salaries and liberal benefits.*

### POSTDOCTORAL FELLOWSHIP ARIZONA CANCER CENTER

Biology of human melanoma, particularly role of protein kinase C and ODC. Experience in biochemistry/molecular biology necessary. Background in tissue culture and quantitative methods preferred. Starting date from January to July of 1987. One year minimum—renewal to 3 years. Salary \$16,000 to \$20,000, depending on qualifications. Send curriculum vitae and three references to:

**Frank L. Meyskens, Jr., M.D.  
Arizona Cancer Center  
University of Arizona Health  
Sciences Center  
Tucson, AZ 85724**

## FELLOWSHIPS

**UNITED STATES-ISRAEL FELLOWSHIP PROGRAM—BARD—The United States-Israel Agricultural Research and Development Fund** has initiated a binational postdoctoral fellowship program promoting cooperative agricultural research between postdoctorates from the United States and scientists from Israel and vice versa. Grant applicants should be citizens of either the United States or Israel, should have fulfilled the requirements for a Ph.D. within the last 3 years (postdoctorates) and should have no other sources of support. The deadline for applications is 1 December of each year. For information on application procedures, contact: **Yair Guron, Executive Director, at either: BARD, P.O. Box 6, Bet Dagan 50250, Israel, Telephone: 972-3-955133 or BARD, U.S. Department of Agriculture, Building 005, BARC-West, Beltsville, MD 20705. Telephone: 301-344-2605.**

## LECTURE



### FIDIA RESEARCH FOUNDATION PRESENTS THE SECOND LUIGI GALVANI AWARD LECTURE

*Satellite Meeting of the 16th Annual Meeting  
of The Society For Neuroscience*

**"Secretion, As Studied By The Patch-Clamp Technique"** honoree and speaker **Erwin Neher, Ph.D.** Membrane Biophysics Department, Max-Planck-Institute on 9 November 1986 at 4:00 p.m. at Georgetown University Medical Center, 3900 Reservoir Road, NW, Washington, DC

For further information, contact: **Fidia Research Foundation, 1775 K Street, NW, Suite 801, Washington, DC 20006; Telephone: 202-857-4277; Telex: 4970490**

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Dr Dorothy Needham, FRS, author of "Machina Carnis; the Biochemistry of Muscle Contraction in its Historical Development", is desirous of selling her collection of offprints, built up over 65 years, and occupying some 78 box-files.

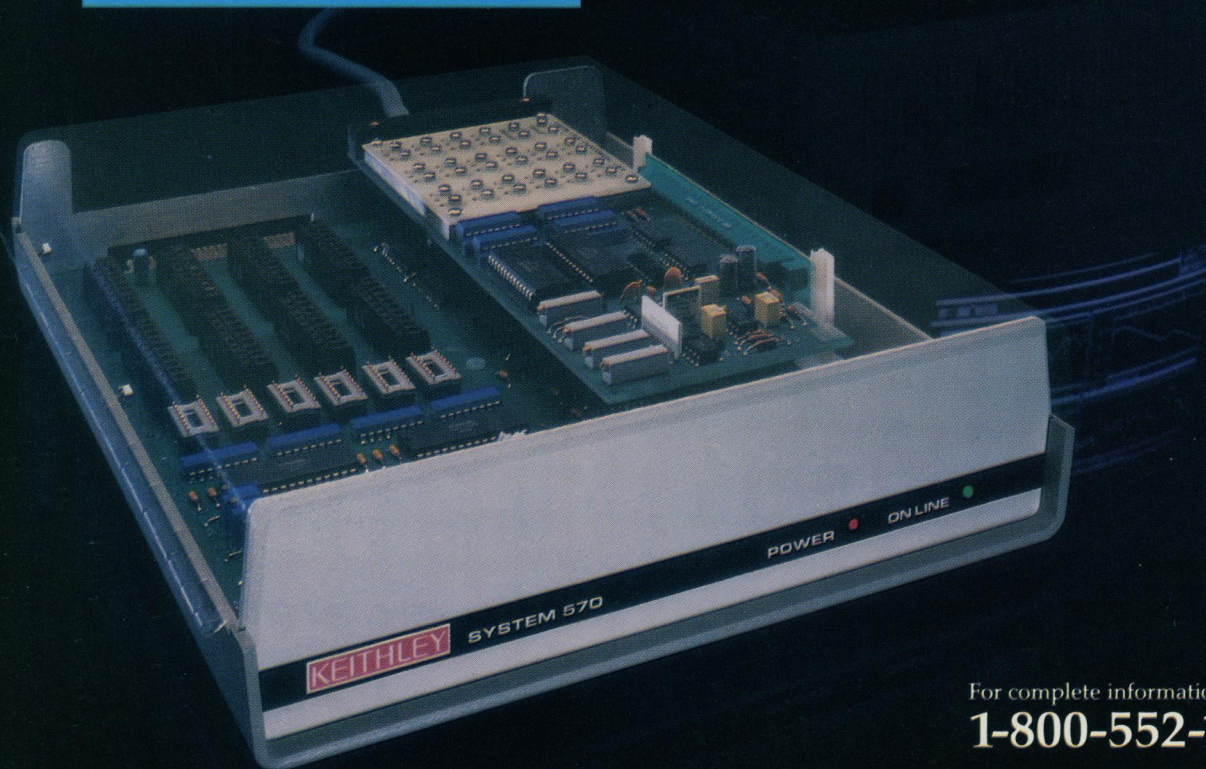
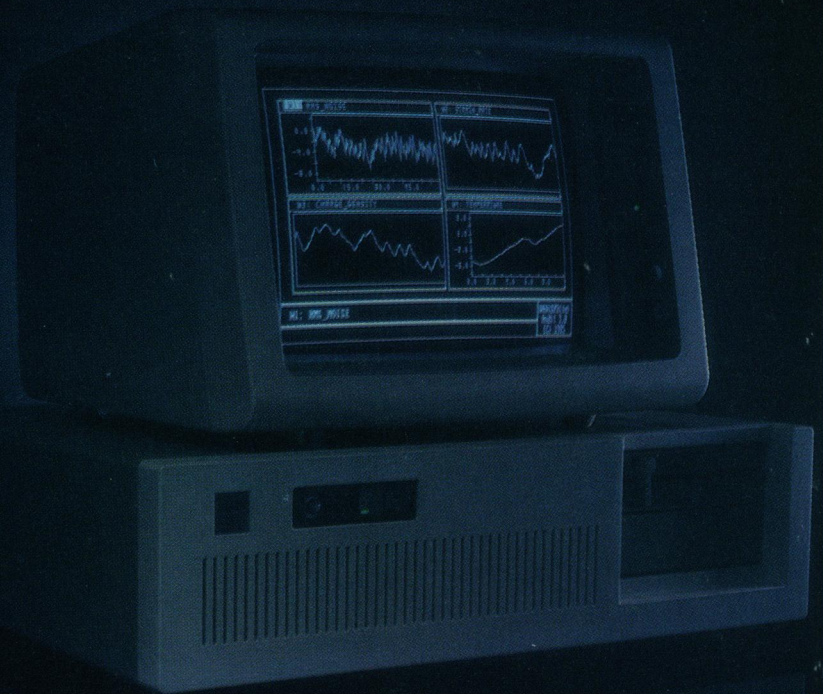
Offers, please, to Dr Joseph Needham, FRS, 42 Grange Road, Cambridge (tel.(0223) 352183) before 11 a.m. each weekday, thereafter at the East Asian History of Science Library, 16 Brooklands Avenue, Cambridge (tel.(0223) 311545) till 6.45 p.m.



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