

search. Grouped in seven broad sections, the papers vary both in format and in quality; some are helpful reviews of general topics or methods and others are short presentations of new or recently published data. The opening overview is a historical look at research on excitatory amino acids that raises many of the topical issues appearing throughout the book. The next section concerns the classification and activation of postsynaptic excitatory amino acid receptors. The first paper in this section is a useful review of postsynaptic pharmacology, with subsequent papers giving more detailed views of specific physiological or pharmacological properties of receptor activation. The third section, on receptor interactions, is almost exclusively dedicated to phencyclidine-sigma opiate interactions with the NMDA receptor, including discussion of how these and other NMDA antagonists may function as anticonvulsants and how phencyclidine-related drugs might be used for PET imaging of NMDA receptors. The section on transmitter identification and localization contains an excellent opening paper on immunocytochemical approaches to glutamate and aspartate localization and other interesting papers on endogenous NMDA receptor ligands. The group of papers on clinical implications includes discussions of the role of excitatory amino acids in neurodegenerative and psychotic disorders as well as in hypoglycemia- and ischemia-induced neural injury. The last two sections, on subcortical and cortical synaptic transmitters, are a hodgepodge of papers sometimes grouped by brain area, predominantly about receptors rather than transmitters per se. Although the quantity of data is daunting, these sections include a number of extremely useful and informative papers on excitatory amino acid receptor physiology and pharmacology with specific reference to such brain areas as the spinal cord, hippocampus, thalamus, and cortex.

In a field expanding rapidly on many fronts, it is impossible to produce a book or scholarly review that is thoroughly up-to-date. Thus one of the negative aspects of this book, the near absence of information about or discussion of the molecular basis of excitatory amino acid channel properties, is unavoidable since much of that work was published after the July 1986 meeting. Nevertheless, there is a good diversity of viewpoints, approaches, and methods throughout the book and broad coverage of areas of the central nervous system in which excitatory amino acid transmission is important. The editors have not attempted to summarize or generalize about the huge body of data that is presented, leaving it to the reader to search out patterns as well as

inconsistencies. Therefore this is not a good primer for the novice, nor was it intended to be. What the book provides is a valuable collection of data, overviews, conclusions, historical perspectives, and prejudices from many of the most active scientists in the field.

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Books Received

Animal Evolution in Changing Environments. With Special Reference to Abnormal Metamorphosis. Ryuichi Matsuda. Wiley-Interscience, New York, 1987. xviii, 355 pp., illus. \$44.95.

Animal Societies. Theories and Facts. Yosiaki Itô, Jerram L. Brown, and Jiro Kikkawa. Japan Scientific Societies Press, Tokyo, 1987 (distributor, Bussiness Centre for Academic Societies Japan, Tokyo). xvi, 291 pp., illus. Y8200. Based on a symposium, Kyoto, July 1986.

Animals in Their Places. Tales from the Natural World. Roger A. Caras. Sierra Club Books, San Francisco, CA, 1987 (distributor, Random House, New York). xii, 297 pp. \$18.95.

Approximate Reasoning in Intelligent Systems, Decision and Control. E. Sanchez and L. A. Zadeh. Eds. Pergamon, New York, 1987. x, 195 pp., illus. \$50. Based on a conference, Paris, Jan. 1986.

Death, Sex, and Fertility. Population Regulation in Preindustrial and Developing Societies. Marvin Harris and Eric B. Ross. Columbia University Press, New York, 1987. 227 pp. \$25.

Delivery Systems for Peptide Drugs. S. S. Davis, Lisbeth Illum, and E. Tomlinson, Eds. Plenum, New York, 1986. xii, 368 pp., illus. \$65. NATO Advanced Science Institutes Series A, vol. 125. From a workshop, Copenhagen, Denmark, May-June 1986.

Dermatotoxicology. Francis N. Marzulli and Howard I. Maibach, Eds. 3rd ed. Hemisphere (Harper and Row), New York 1986. xxvi, 773 pp., illus. \$95.

The Fundamentals of Paleohydrogeology of Ore Deposits. Evgeny A. Baskov. Springer-Verlag, New York, 1987. viii, 253 pp., illus. \$79. Translated from the Russian edition (Leningrad, 1983).

Fundamentals of Receptor Molecular Biology. Donald F. H. Wallach. Dekker, New York, 1987. x, 398 pp., illus. \$85. Immunology Series, vol. 34.

Gas Flow and Chemical Lasers. S. Rosenwaks, Ed. Springer-Verlag, New York, 1987. xiv, 579 pp., illus. \$72.60. Springer Proceedings in Physics, vol. 15. From a symposium, Jerusalem, Israel, Sept. 1986.

General Photobiology. Donat-Peter Häder and Manfred Tevini. Pergamon, New York, 1987. xviii, 323 pp., illus. \$40; paper, \$21.95. Pergamon International Library of Science, Technology, Engineering and Social Studies.

Genetic and Perinatal Effects of Abused Substances. Monique C. Braude and Arthur M. Zimmerman, Eds. Academic Press, Orlando, FL, 1987. x, 211 pp., illus. \$55. Cell Biology.

Genetic Regulation of Development. William F. Loomis, Ed. Liss, New York, 1987. xviii, 423 pp., illus. \$78. From a symposium, La Jolla, CA, June 1986.

Genetics in the Courts. Henry M. Butzel, Mellen, Lewiston, NY, 1987. xxii, 801 pp. \$89.95. Studies in Health and Human Services, vol. 9.

Handbook of Marriage and the Family. Marvin B. Sussman and Suzanne K. Steinmetz, Eds. Plenum, New York, 1987. xlii, 915 pp., illus. \$95.

Handbook of Toxicology. Thomas J. Haley and William O. Berndt, Eds. Hemisphere (Harper and Row), New York, 1987. xiv, 697 pp., illus. \$110.

Health Care and Its Costs. Carl J. Schramm, Ed. Norton, New York, 1987. x, 301 pp. \$18.95. From a meeting, Harriman, NY, Nov. 1986.

Hendrik Adriaan van Reede tot Drakenstein (1636-1691) and Hortus Malabaricus. A Contribution to the History of Dutch Colonial Botany. J. Hengiger. Balkema, Accord, MA, 1986. xvi, 295 pp., illus. \$75.

Molecular Inclusion and Molecular Recognition. Clathrates I. E. Weber, Ed. Springer-Verlag, New York, 1987. x, 171 pp., illus. \$69. Topics in Current Chemistry, vol. 140.

Molecular Mechanisms of Desensitization to Signal Molecules. T. M. Konijn *et al.*, Eds. Springer-Verlag, New York, 1987. xiv, 335 pp., illus. NATO Advanced Science Institutes Series H, vol. 6. From a workshop, Noordwijkerhout, the Netherlands, May 1986.

Molecular Neurobiology of the Mammalian Brain. Patrick L. McGeer, John C. Eccles, and Edith G. McGeer. 2nd ed. Plenum, New York, 1987. xxvi, 774 pp., illus. \$59.50; paper, \$27.50.

Molecular Regulation of Nuclear Events in Mitosis and Meiosis. Robert A. Schlegel, Margaret S. Halleck, and Potu N. Rao, Eds. Academic Press, Orlando, FL, 1987. xiv, 375 pp., illus. \$85. Cell Biology.

Molecular Strategies of Parasitic Invasion. Nina Agabian, Howard Goodman, and Nadia Nogueira, Eds. Liss, New York, 1987. xxviii, 775 pp., illus. \$125. UCLA Symposia on Molecular and Cellular Biology, new series, vol. 42. From a symposium, Park City, UT, Jan. 1987.

Motivation, Intention, and Volition. Frank Halisch and Julius Kuhl, Eds. Springer-Verlag, New York, 1987. xiv, 436 pp., illus. \$71.

No Way. The Nature of the Impossible. Philip J. Davis and David Park, Eds. Freeman, New York, 1987. xviii, 325 pp., illus. \$17.95.

Non-Gravitational Perturbations and Satellite Geodesy. Andrea Milani, Anna Maria Nobili, and Paolo Farinella. Hilger, Bristol, U.K., 1987 (U.S. distributor, Taylor and Francis, Philadelphia). 125 pp., illus. \$44.

Nonlinear Hydrodynamic Modeling. A Mathematical Introduction. Hampton N. Shrier, Ed. Springer-Verlag, New York, 1987. xvi, 546 pp., illus. \$39.95. Lecture Notes in Physics, vol. 271.

Nonlinear Integrable Equations. Recursion Operators, Group-Theoretical and Hamiltonian Structures of Soliton Equations. B. G. Konopelchenko. Springer-Verlag, New York, 1987. viii, 361 pp. \$29.40. Lecture Notes in Physics, vol. 270.

Nonlinear Optical Properties of Organic Molecules and Crystals. Vol. 1. D. S. Chemla and J. Zyss, Eds. Academic Press, Orlando, FL, 1987. xiv, 482 pp., illus. \$79.50. Quantum Electronics—Principles and Applications. Published by arrangement with AT&T.

Nonlinear Stochastic Systems in Physics and Mechanics. Nicola Bellomo and Riccardo Riganti. World Scientific, Singapore, 1987 (U.S. distributor, Taylor and Francis, Philadelphia, PA). xiv, 244 pp., illus. \$37.

Nonlinearity in Condense Matter. A. R. Bishop *et al.*, Eds. Springer-Verlag, New York, 1987. x, 401 pp., illus. \$57. Springer Series in Solid-State Sciences, 69. From a conference, Los Alamos, NM, May 1986.

Numbers at Work and Play. Stephen P. Richards. Richards, New Providence, RI, 1987. 213 pp., illus. Paper, \$8.95.

Seawater-Sediment Interactions in Coastal Waters. An Interdisciplinary Approach. Jan Rumohr, Eckart Walger, and Bernd Zeitschel, Eds. Springer-Verlag, New York, 1987. 338 pp., illus. + map in pocket. Paper, \$49.95. Lecture Notes on Coastal and Estuarine Studies, vol. 13.

The Semantics of Destructive Lisp. Ian A. Mason. University of Chicago Press, Chicago, IL, 1987. ii, 282 pp., illus. \$29.95; paper, \$14.95. CSLI Lecture Notes, no. 5.

Seventh Workshop on Grand Unification/COBAN'86. (Toyama, Japan, April 1986.) Jiro Arafune, Ed. World Scientific, Singapore, 1987 (U.S. distributor, Taylor and Francis, Philadelphia, PA). xii, 560 pp., illus. \$72.

Silent Spring Revisited. Gino J. Marco, Robert M. Hollingworth, and William Durham, Eds. American Chemical Society, Washington, DC, 1987. xviii, 214 pp., illus. \$29.95; paper, \$17.95.

Skew Linear Groups. M. Shirvani and B. A. F. Wehrfritz. Cambridge University Press, New York, 1987. iv, 253 pp. Paper, \$22.95. London Mathematical Society Lecture Note Series, 118.

Sliding Piece Puzzles. Edward Hordern. Oxford University Press, New York, 1986. xiv, 249 pp., illus. \$26.95. Recreations in Mathematics, 4.

The Snake. John Crompton. Lyons, New York, 1987. x, 150 pp., illus. Paper, \$8.95. Reprint, 1963, ed.

The Sociobiology of Ethnocentrism. Evolutionary Dimensions of Xenophobia, Discrimination, Racism and Nationalism. Vernon Reynolds, Vincent Falger, and Ian Vine, Eds. University of Georgia Press, Athens, GA, 1987. xx, 327 pp., illus. \$40. Based on a meeting, Oxford, U.K., Jan. 1985.

Products & Materials

Genetic Databases on Optical Disks

LASERGENE is an optical disk that contains the complete GenBank database and the National Biomedical Research Foundation's Protein Identification Resource database as well as molecular biology software. The disk, which is resistant to heat, moisture, magnetic fields, scratches, and x-rays, holds as much data as 1444 floppy disks. Searching an entire database takes only a few seconds. Full updates of the databases are released four times a year. LASERGENE operates with IBM PC and compatible computers with an optical disk player. DNA-STAR. Circle 525.

Colorimeter

The μ -Colorimeter reads the absorbance or concentration of samples directly from microcuvette strips. The instrument's controls consist of two buttons; a liquid-crystal display guides the user through the measurements. As many as 12 wells may be measured and the results downloaded to a personal computer or printer by means of an RS-232 interface. Interchangeable interference filters are available in wavelengths from 400 to 700 nm. Whatman LabSales. Circle 526.

Dideoxy Sequencing Enzyme

Sequenase is an enzyme derived from T₇ DNA polymerase and is specifically engineered for chain-termination sequencing reactions. This enzyme and its protocol result in sequencing gels with uniformly labeled bands and reduced background. Sequences of as many as 600 nucleotides may be read from a single experiment. The enzyme can use deoxyinosine triphosphate to eliminate compressions and other secondary-structure gel artifacts. United States Biochemical. Circle 528.

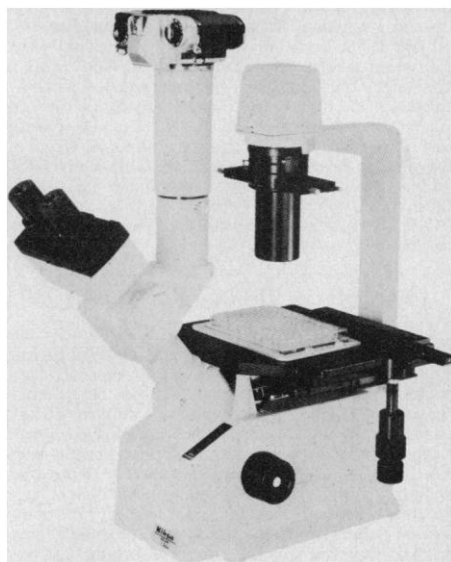
Newly offered instrumentation, apparatus, and laboratory materials of interest to researchers in all disciplines in academic, industrial, and government organizations are featured in this space. Emphasis is given to purpose, chief characteristics, and availability of products and materials. Endorsement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

Electrophoresis Power Supply

The ISS-1500 is a power supply for two-dimensional electrophoresis. It can deliver as much as 750 W. Dual transformers provide 1500 V for isoelectric focusing and 1500 mA for sodium dodecyl sulfate-polyacrylamide gel electrophoresis and Western blotting multiple gels. The ISS-1500 has solid-state electronics and a digital display. Integrated Separation Systems. Circle 533.

Photomicrographic Instrument

The TMS-F is a trinocular inverted microscope with a single-lens reflex camera. A single knob can divert all the light to the photo tube for photography or closed-cir-



cuit television. Magnification of $\times 4$ to $\times 40$ of samples in roller bottles, flasks, Petri dishes, microtiter plates, or slides are possible. Long working distance phase-contrast objectives eliminate distortion caused by plastic vessels. Nikon, Instrument Group. Circle 649.

Programming Language Pop-Up Help

The On-Line Programmer's Guides are memory-resident software utilities meant to replace programming language technical manuals. Each Guide can be popped up within an editor or other application program to give cross-referenced programming help. The help may be displayed on a half screen so that the user's work is still visible. The On-Line Programmer's Guides are

available for Assembly, BASIC, C, and Pascal languages and operate on IBM PC-compatible computers with DOS 2.0 or higher. Peter Norton Computing. Circle 529.

Prepared Buffers for Electrophoresis

Three buffer solutions are available already mixed for use in electrophoresis. 10 \times TBE Sequencing Buffer Concentrate is a solution of 1.0M tris-borate with pH 8.3 and 20mM ethylenediaminetetraacetate for preparation of nucleic acid sequencing gels. SDS-PAGE Tank Buffer Concentrate is a solution of 0.25M tris base, 1.92M glycine, and 1% sodium dodecyl sulfate (SDS) for use as the tank buffer in SDS and polyacrylamide gel electrophoresis procedures. Transfer Buffer Concentrate is a solution of 0.25M tris base and 1.92M glycine for use as the tank buffer in electrophoretic blotting procedures. All the buffers are mixed with distilled, deionized water. National Diagnostics. Circle 530.

Entry-Level Color Plotters

The VS3000 is a series of electrostatic color plotters with 4 megabytes of random-access vector memory. The RS-232C serial interface accepts vector data, and the Centronics parallel interface accepts data in the Versatec Data Standards format. The plotters are available with resolutions of either 200 or 400 points per inch and with media widths of 24, 36, or 44 inches. Versatec. Circle 534.

Literature

Biochemicals is a catalog listing 1800 products for molecular biology, immunology, cell biology, and biochemistry as well as analysis data, storage information, and possible applications. Boehringer Mannheim Biochemicals. Circle 538.

Molecular Biology Reports is a newsletter containing articles on topics such as sequencing, mutagenesis, cloning, electroporation, and blotting. News on related products is included. Bio-Rad Laboratories. Circle 539.

Micropositioning Systems for Precision Positioning, Measurement & Control is an eight-page brochure that describes an inchworm motor controller, low-voltage piezoelectric actuators, an integral encoder stage, and accessories. Burleigh Instruments. Circle 541.

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:

Thursday, 10 a.m., 2 weeks prior to issue date (mailed on issue date).

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.

LINE CLASSIFIED (POSITIONS OPEN, COURSES, FELLOWSHIPS, MARKETPLACE, and so forth): \$35.00 per line; \$350 minimum, per week (minimum charge covers one inch on a single column; one inch equals 10 lines of 52 characters and spaces per line). No charge for use of box number. No agency commission for ads less than 4 inches. No cash discount. Prepayment required for all foreign ads. Purchase orders and/or cover letter including billing address required for all other advertising.

To ESTIMATE ad cost:

Structure ad copy on a separate page, on lines of 52 characters and spaces. Include any desired heading. Each line of heading, and/or extra line spaces, and all partial lines (including centered reply information) are counted as full lines. Ad titles located within the text are printed in boldface caps and are only 32 characters per line. In ESTIMATING the cost, multiply total lines × \$35.00 = approximate cost of ad. (This is an approximate cost ONLY. Allow for variation between estimated lines and actual typeset lines and the resulting final cost. Purchase orders must allow for some degree of flexibility and/or adjustment.)

CANCELLATION POLICY:

NOTE: Ad cancellations made after Thursday, TWO weeks prior to issue date incur a 10% production charge. Final deadline for cancellations is 12 p.m. Tuesday, ONE week prior to issue date. Cancellations must be in writing.

Send copy for all **Positions Wanted** ads and **Line Classified** ads less than 1/6 page in size (39 lines) to:

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

Send copy for **Fractional Display** ads, 1/6 page and larger, and all **Marketplace** ads to:

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

Blind ad replies should be addressed as follows:

Box (give number)
SCIENCE
1333 H Street, NW
Washington, DC 20005

POSITIONS WANTED

Biochemist/Cell Biologist, Ph.D., 1980. Experienced in cell culture techniques, purification and characterization, or proteins and enzymes. Enzymology, protein chemistry, protein sequencing, HPLC, TLC, EIA, RIA. Folate and peridine biochemistry. Drug inhibition screening and resistance. Cloning, lymphocyte works, and so forth. Seeks research position. Box 118, SCIENCE.

Electron Microscopist (M.S. cell biology). Extensive experience in neuroscience and protistological applications. All elements of EM process, immunocytochemistry, lab management, training, image analysis, autoradiography. U.S. West, Sun Belt, or English-speaking lab situation worldwide. Box 93, SCIENCE.

Immunologist, Ph.D. Academic and biotechnology experience in hybridoma technology, monoclonal antibodies, cellular immunity, and large-scale cell culture. Extensive background in project management. Seeking position in academic/industrial collaborative research and development. Box 134, SCIENCE.

POSITIONS WANTED

Industrial Microbiologist, Ph.D., 1984. Experience in ethanol fermentation, cell immobilization, plasmid vector construction, yeast strain development using protoplast fusion, recombinant DNA technique, hybridization. Available immediately Box 127, SCIENCE.

Microbiologist/Molecular Biologist, Ph.D. of Tokyo University (1984). Research and teaching experience in recombinant DNA and industrial microbiology. Fluent in Mandarin and Japanese. Seeks industrial or academic position. Telephone: 818-359-8543. 11621 Clark Street, #101 Arcadia, CA 91006.

POSITIONS OPEN

ANATOMIST—Ohio University. The Program in Anatomy, Development and Neurobiology seeks to fill a tenure-track assistant professorship. We are searching for an individual with research interests in biomechanics and physical properties of musculoskeletal tissue, especially bone. Teaching duties involve participation in the gross anatomy course for osteopathic medical students and an animal locomotion course in the Department of Zoological and Biomedical Sciences. A Ph.D. degree, postdoctoral experience and previous teaching experience as a faculty member in human gross anatomy area are required. This will be a joint appointment in the College of Osteopathic Medicine and in the Department of Zoological and Biomedical Sciences with a starting date of 1 January 1988. Letter of application, curriculum vitae, description of current and future research plans, copies of most significant publications, statement of teaching experience and three letters of recommendation must be received by 1 November 1987. Address to: **Dr. Joseph Eastman, Anatomy Search Committee, College of Osteopathic Medicine, Irvine Hall, Ohio University, Athens, OH 45701-2979. Telephone: 614-593-2336.**

Ohio University is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT IN MOLECULAR GENETICS

The Department of Biological Science, Florida State University, invites candidates to apply for a 12-month, non-tenure-track faculty position in a biomedical-technology research program related to generalized techniques for isolating gene probes to human disease. Candidates should have experience and interest in gene mapping through cytogenetic/molecular genetic techniques (e.g., in situ hybridization of cloned DNA probes to mitotic chromosomes) or cloning and analysis of large genomic DNA segments (e.g., pulse field gel electrophoresis or cloning in yeast). Recent Ph.D. required; postdoctoral experience in these fields is helpful. Starting salary \$25,000 per 12 months. Submit curriculum vitae, a brief statement of research history and future interest, and names and addresses of three references to: **Dr. John Hozier, Department of Biological Science, Florida State University, Tallahassee, FL 32306-3043. Florida State University is an Affirmative Action/Equal Opportunity Employer.**

THE JOHNS HOPKINS ONCOLOGY CENTER ASSISTANT PROFESSOR

An individual is sought at the doctoral level to join a multidisciplinary team of clinicians/scientists studying the treatment of cancer with radiolabeled and unlabeled antibodies through fundamental research combined with clinical trials. Applicants should have completed postdoctoral studies in a facet of immunology. Experience in immunochemistry is desirable. We seek an individual who has a commitment for the rapid transfer of basic scientific knowledge to clinical application.

Interested individuals should transmit curriculum vitae, a letter describing career goals and research interests, and the names of three referees to:

Dr. Jerry R. Williams
Radiobiology Laboratory
The Johns Hopkins Oncology Center
Room 2-121
600 North Wolfe Street
Baltimore, MD 21205

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POSITIONS OPEN

ANATOMY UNIVERSITY OF SASKATCHEWAN DEPARTMENT OF ANATOMY

The Department of Anatomy, University of Saskatchewan, College of Medicine, invites applications for tenure-track position at the assistant professor level. Applicants should have experience in teaching developmental biology to medical and science students as well as teratology and possibly neuroanatomy and/or gross anatomy. Background in molecular biology is desirable. Applicants should have proven research background and a strong research program. *In accordance with Canadian immigration requirements, priority will be given to Canadian Citizens and permanent residents.* Application, including curriculum vitae, names of three referees, and an outline of proposed research should be submitted to: **Dr. Gary D. Burkholder, Head, Department of Anatomy, College of Medicine, University of Saskatchewan, Saskatoon, Saskatchewan, Canada, S7N 0W0.**

ASSISTANT PROFESSOR, 10-month, tenure-track. Rutgers University invites applications for a position in agricultural policy and rural development, to begin January or September 1988. Responsibilities include: (i) developing research program(s) on social/policy implications of agricultural change in New Jersey, focusing on such areas as rural-urban fringe dynamics, potential biotechnology impacts, and other relevant topics; interest in international agriculture also desirable; (ii) teaching in multidisciplinary undergraduate department and appropriate graduate program. Send letter of application, vitae, publications, and three letters of reference by 30 October 1987 to: **Search Committee, Department of Human Ecology, Cook College, Rutgers University, P.O. Box 231, New Brunswick, NJ 08903. Equal Opportunity/Affirmative Action Employer.**

ASSISTANT PROFESSOR—The Department of Biochemistry invites applications for a tenure-track position. Applicants should have active research, or be able to establish an independent extramurally funded research program, in the area of analytical, physical or protein biochemistry. Others with outstanding credentials in other areas will be considered. The successful candidate will participate in the educational program of the department. At least 2 years of postdoctoral experience are required. Interested applicants should send their curriculum vitae, a brief description of their research and three letters of reference by 15 October 1987 to: **Dr. Mary L. Swift, Chairman of Search Committee, Department of Biochemistry, College of Medicine, Howard University, Washington, DC 20059. Howard University is an Equal Opportunity Employer M/F/H.**

The University of California, Los Angeles (UCLA), Department of Kinesiology, Division of Life Sciences, invites applications from individuals with research expertise in biomechanics movement and/or dynamics as it relates to an integrated view of the motor and neural control of movement. This is a tenure-track assistant professor position, effective academic year 1988. Applicants should have a Ph.D. or M.D. degree. The appointee will be expected to conduct an independent research program and teach at undergraduate and graduate levels. The salary will be commensurate with qualifications. Submit curriculum vitae, statement of research interests, reprints, and names and addresses of three individuals who may be contacted for letters of reference to: **Professor R. F. Zernicke, Department of Kinesiology, College of Letters and Science, 2854 Slichter Hall, UCLA, Los Angeles, CA 90024-1568. Deadline for receipt of applications is 31 December 1987.**

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

ASSISTANT PROFESSOR—PHYSIOLOGY. Tenure-track position. Ph.D. required, with postdoctoral experience preferred. Teach courses in general and human physiology and introductory biology. Active research program involving undergraduate and graduate students expected. Duties begin 11 January 1988 (or August, 1988). Application deadline: October 15, 1987, or until position is filled. Send letter of application and résumé (and arrange to have sent complete transcripts and three letters of reference) to: **Dr. John Hilliard, Chairman, Physiology Search Committee, Life Sciences Program, Sam Houston State University, Huntsville, TX 77341. Affirmative Action/Equal Opportunity Employer.**

POSITIONS OPEN

ASSISTANT PROFESSORSHIP BIOSTRUCTURAL CHEMISTRY PRINCETON UNIVERSITY

As part of an expansion in the Life Sciences at Princeton University, the Department of Chemistry invites applications for an assistant professorship from individuals whose work emphasizes the structure and function of biologically important macromolecules (proteins, nucleic acids, polysaccharides, phospholipids). More senior appointments could be considered in appropriate cases. Application should include a description of research interests, curriculum vitae, and three letters of recommendation, and should be sent by 30 November 1987 to: **Professor C. Schutt, Department of Chemistry, Frick Laboratory, Princeton University, Princeton, NJ 08544.** *Princeton is an Equal Opportunity/Affirmative Action Employer.*

BRANDEIS UNIVERSITY ASSISTANT PROFESSOR GENETICS AND MOLECULAR BIOLOGY

The Rosenstiel Basic Medical Sciences Research Center and Department of Biology at Brandeis University invites applications for a tenure-track position with an anticipated starting date of September, 1988. Applicants at the assistant professor level are preferred, but exceptional senior candidates may be considered. Candidates should have a Ph.D. and postdoctoral experience in genetics and molecular biology, with a proven record of research accomplishments. We welcome applications from scientists working on problems including gene regulation, chromosome structure, or recombination in lower eukaryotes, mammalian cells or viruses.

Candidates should submit curriculum vitae, including description of current and proposed research. Applicants should arrange for letters of recommendation from three references to be sent to: **Molecular Biology Search Committee, Rosenstiel Center, Brandeis University, Waltham, MA 02254.** Applications should be received no later than 15 October 1987. *Brandeis University is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR OF PHARMACOLOGY

The Department of Pharmacology in the College of Medicine of the University of Tennessee, Memphis invites applications from individuals with strong research credentials in biochemical neuropharmacology or neuroendocrinology for a tenure-track position, available immediately, at the level of assistant professor. Applicants must have a Ph.D. and/or M.D. degree, have completed not less than 2 years of postdoctoral training, and have a demonstrated ability to conduct independent research. Preference will be given to applicants who apply modern constructs of biochemistry, immunology, or molecular biology to research problems in neuroscience as related to pharmacology. Faculty members are expected to develop a strong research program and to participate in departmental teaching activities. Closing date is 1 December 1987. Please submit curriculum vitae, statement of research interests, and arrange for three letters of reference to be sent to: **Dr. Murray Heimberg, Chairman, Department of Pharmacology, University of Tennessee, Memphis, 874 Union Avenue, Memphis, TN 38163.** *The University of Tennessee is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR—PHARMACOLOGY

The University of Wisconsin-Madison School of Pharmacy invites applications for a faculty position at the rank of assistant professor. This is a full-time, tenure-track appointment. The successful applicant must be strongly committed to the development of a vigorous research program. Postdoctoral experience and a record of research accomplishment are prerequisites. Outstanding candidates in all areas of pharmacology will receive full consideration. However, candidates with a strong background of research accomplishments in immunocellular or molecular pharmacology are especially encouraged to apply. The selected applicant is expected to participate in our graduate teaching program and in undergraduate instruction. Submit curriculum vitae, a statement of research plans, and names and addresses of at least three references to: **Professor Paul Bass, Chair, Search Committee, School of Pharmacy, University of Wisconsin, Madison, Wisconsin 53706.** Application deadline: 15 November 1987. *The University of Wisconsin is an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

UNIVERSITY OF ALBERTA DEPARTMENT OF PHARMACOLOGY

The University of Alberta, Department of Pharmacology, is seeking applications for a tenure-track faculty position at the level of **ASSISTANT PROFESSOR.** (Salary range \$31,612–\$45,340.) Applicants should have a Ph.D. in pharmacology or a related discipline, and be highly qualified investigators capable of directing a strong program of independent research. They must be enthusiastic and competent teachers. *The University of Alberta is committed to the principle of equity in employment.* This position will be available immediately. Closing date for applications is 30 November 1987.

Those interested should apply in writing enclosing curriculum vitae, the names of at least three referees, and any other relevant information to:

**Dr. D. A. Cook, Chairman
Department of Pharmacology
9-70 Medical Sciences Building
Faculty of Medicine
University of Alberta
Edmonton, Alberta
T6G 2H7
Telephone: 403-432-3575**

ASSISTANT PROFESSOR OF PHYSIOLOGY

A tenure-track position is available in the Department of Physiology at Eastern Virginia Medical School. Persons with research interests in respiration, pulmonary circulation, and/or neurophysiology, including neural control of respiration or circulation, are encouraged to apply. Applicants must have an outstanding publication record and demonstrate fundability at the national level.

Send inquiries along with curriculum vitae and names of three references to:

**Russell L. Prewitt, Ph.D.
Chairman, Physiology Search Committee
Department of Physiology
Eastern Virginia Medical School
P.O. Box 1980
Norfolk, VA 23501-1980
*Eastern Virginia Medical School is an Equal Opportunity/Affirmative Action Employer***

ASSISTANT/ASSOCIATE PROFESSOR COMMUNITY NUTRITION

The Department of Nutrition, University of California, Davis, seeks applicants for an 11-month tenure-track position starting 1 July 1988. Teaching and advising in community and human nutrition; research in human nutrition. Doctorate required in nutrition, a closely related behavioral science field, or epidemiology. Send curriculum vitae, statement of research and teaching interests and names of three references by 15 January 1988, to: **Dr. Kathryn Dewey, Department of Nutrition, University of California, Davis, CA 95616.**

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

ASSISTANT OR ASSOCIATE PROFESSOR IN THE RESEARCH ASSOCIATE TRACK to assume major scientific and administrative responsibility in a cellular electrophysiology laboratory studying arrhythmogenesis and the actions of antiarrhythmic drugs. Experience in single-cell work, voltage clamping, ion sensitive microelectrodes, and computer programming preferable. Excellent scientific environment. Renewable term appointment with full fringe benefits. Immediate availability. Please send curriculum vitae, representative reprints, and names of three references to: **Morton F. Arnsdorf, M.D., Chief, Section of Cardiology, University of Chicago Hospitals, Box 423, 5841 South Maryland, Chicago, IL 60637.**

ASSOCIATE OR FULL PROFESSOR

The Department of Pharmacology of Case Western Reserve University has available a senior faculty position for a scientist with an outstanding research program in an exciting aspect of molecular/cellular pharmacology. The specific research area is flexible. Applications/nominations along with curriculum vitae, a statement of research interests and the names of three referees should be sent to: **Dr. Leslie T. Webster, Jr., Department of Pharmacology, School of Medicine, Case Western Reserve University, Cleveland, OH 44106.** Telephone: 216-368-3394. *An Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.*

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR UNIVERSITY OF SOUTHERN CALIFORNIA SCHOOL OF MEDICINE KENNETH NORRIS CANCER CENTER

Tenure-track position available in the area of molecular eukaryotic cell biology, molecular genetics, or animal virology. Requirements include Ph.D. or M.D. degree, past achievement in research, development of a strong research program supported by outside funds, medical and/or graduate teaching. Send curriculum vitae, a brief statement of research interests, and three letters of recommendation by 13 November 1987 to: **Dr. Peter K. Vogt, University of Southern California, School of Medicine, Department of Microbiology, 2011 Zonal Avenue, Los Angeles, CA 90033-1054.**

ASSISTANT/ASSOCIATE PROFESSORS—MICROBIOLOGY. The Department of Microbiology at the University of Vermont is seeking to expand its research base in molecular genetics. To do this, a significant number of tenure-track faculty will be recruited. The Department will be housed in a new Microbiology Center. Faculty members will have appointments in both the College of Medicine and the College of Agriculture and Life Sciences. Departmental teaching responsibilities are to undergraduate, graduate and medical students. Applications will be accepted until 30 November 1987, or until satisfactory candidates are selected. Strong applicants should send their curriculum vitae, present and future research plans, and the names and addresses of at least three references to: **Dr. Susan S. Wallace, Professor and Chairperson, Department of Microbiology, University of Vermont, Burlington, VT 05405.**

An Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

ASSISTANT RESEARCH SCIENTIST MOLECULAR ENDOCRINOLOGY

A position is available immediately for a Ph.D. with 3 or more years of postdoctoral experience in biochemistry or molecular biology. In addition to carrying out an individual project related to ongoing research, this individual will have responsibility for the day-to-day activities of a laboratory of about 10 researchers. Technical assistance will be available for the individual project. The major efforts in the laboratory involve analyses of the structure and hormonal regulation of the genes for malic enzyme and fatty acid synthase. Salary will be commensurate with experience. Send curriculum vitae and arrange to have two letters of reference sent directly to: **Alan G. Goodridge, Ph.D., Professor and Head, Department of Biochemistry, University of Iowa, Iowa City, IA 52242.** *The University of Iowa is an Equal Opportunity/Affirmative Action Employer.*

BIOTECHNOLOGY

PHARMACIA-LKB BIOTECHNOLOGY INC., a world leader in molecular biology and biomolecular separations, seeks highly qualified individuals to fill positions in the Technical Service Department. The positions offer high visibility and outstanding opportunities for personal and career growth.

Responsibilities include the technical support of customers, sales and marketing staff, and the preparation and presentation of seminars, workshops, and training programs. Strong oral and written communication skills are required. Occasional travel will be necessary.

MOLECULAR BIOLOGY TECHNICAL SPECIALIST

Thorough knowledge and experience in contemporary recombinant DNA technology required.

PEPTIDE SYNTHESIS APPLICATIONS SPECIALIST

Hands-on experience with automated peptide synthesizers, coupling and cleavage procedures for t-Boc and Fmoc chemistries required.

TECHNICAL SPECIALIST

Thorough knowledge and experience in t-Boc, Fmoc and active ester chemistries required.

Please call or write for an application: **201-457-8175, Human Resources Department, Pharmacia LKB Biotechnology, Inc., 800 Centennial Avenue, Piscataway, NJ 08855.** *We are an Equal Opportunity Employer, M/F/H/V.*

POSITIONS OPEN

ASSISTANT RESEARCH BIOLOGISTS

Two assistant research biologist positions are available in the Department of Biology at the University of California, San Diego (UCSD), to study the mechanism by which ATP-dependent kinase regulates the bacterial phosphotransferase system. Applicants must have Ph.D. and experience in biochemistry, and molecular genetics. Salary will be based on qualifications and UC pay scale. Please send curriculum vitae and name of three references by 15 October 1987 to: Lynn Williams, Department of Biology, B-022, UCSD, La Jolla, CA 92093.

UCSD is an Equal Opportunity/Affirmative Action Employer.

BASIC SCIENTIST—Faculty position to teach anatomy, neuroanatomy, neurophysiology, biomechanics, long-term rehabilitation administration, physical agents, research, administration. Master's required, doctor's preferred. Begin 14 January 1988. Send curriculum vitae, three references, research interests to: Patricia Wilder, Acting Chair, Physical Therapy Department, University of Wisconsin-La Crosse, La Crosse, WI 54601. Telephone: 608-785-8470. Deadline 1 November 1987, every 2 weeks thereafter until filled. University of Wisconsin-La Crosse is an Affirmative Action/Equal Opportunity Employer.

BIOCHEMISTRY FACULTY POSITIONS RICE UNIVERSITY

The Department of Biochemistry at Rice University invites applications for two faculty positions at the level of assistant professor. Clear evidence of research ability and scholarship are essential requirements. Outstanding candidates with expertise in any field of biochemistry and molecular biology are encouraged to apply. Send résumé, a brief outline of future research plans, and at least three letters of reference to: K. S. Matthews, Chair, Department of Biochemistry, Rice University, P.O. Box 1892, Houston, TX 77251. Rice University is an Equal Opportunity/Affirmative Action Employer.

CHAIR, DEPARTMENT OF PEDIATRICS—The University of California, Davis, School of Medicine, seeks an individual to assume the role of Chair, Department of Pediatrics. Position will be a full-time tenure-track faculty position at the Associate professor or professor level. Candidates must possess an M.D. degree, be Board-certified in pediatrics or equivalent, and be eligible for licensure in the State of California. Candidates should have documented capabilities in leadership, basic and/or clinical research, teaching, and clinical pediatric medicine. In addition to providing academic and clinical leadership for the Department of Pediatrics, the individual will be expected to become integrally involved in teaching, patient care, research, and committee service within the University of California. Please send communications, curriculum vitae, and the names of at least five references to: Joseph Silva, M.D., Chair, Search Committee, Professor and Chair, Department of Internal Medicine, 2315 Stockton Boulevard, Room 4307, Sacramento, CA 95817. This position is open until filled; however, applications will not be accepted after 1 January 1988. The University of California is an Equal Opportunity/Affirmative Action Employer.

CHAIRPERSON, DEPARTMENT OF ANATOMY

The Uniformed Services University of the Health Sciences (USUHS) is conducting a search for Chairperson of the Department of Anatomy of the F. Edward Hebert School of Medicine. Candidates should have an earned doctoral degree in anatomy, cell biology, neurobiology, or related field, a distinguished record of research, substantial experience in teaching (preferably in medical school), and demonstrated leadership and administrative ability. The position will be available by 1 June 1988; starting date is negotiable. Salary will be commensurate with qualifications. All applications received by 1 November 1987 will be considered, but the position will remain open and applications will be accepted until an appointment is made. Candidates should submit curriculum vitae and bibliography, statement of research interests and teaching philosophy, and names of three professional references to: Chairperson, Anatomy Search Committee, c/o Civilian Personnel Directorate, Uniformed Services University of the Health Sciences, 4301 Jones Bridge Road, Bethesda, MD 20814. USUHS is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

BIOMOLECULAR CRYSTALLOGRAPHY

FACULTY POSITION: The Department of Chemistry at The Ohio State University invites nominations and applications for a full professorship, in the area of x-ray crystallography of biologic macromolecules. The department has a history of excellence in research and teaching in all areas of chemistry, and a significant fraction of the Faculty has interest in biological chemistry. Significant biochemical research programs exist in enzymology and model systems, membrane, physical biochemistry, polysaccharide structure, and molecular biology. This new faculty position will also be associated with the Ohio State Biotechnology Center, which will provide important resources to the program. The successful candidate must have an established reputation in the field, and be able to continue the strong research program at OSU. Significant equipment, space, and staff resources will be provided to establish this program. Review of applications will begin on 1 November 1987, and the deadline is 30 November 1987. Nominations and application materials should be sent to:

Professor Robert M. Mayer
Chairman, Search Committee
Department of Chemistry
The Ohio State University
120 West 18th Avenue
Columbus, OH 43210

The Ohio State University is an Equal Opportunity/Affirmative Action Employer, and encourages applications from women and minorities.

The Department of Biological Sciences, Dartmouth College, invites applications for two full-time, tenure-track positions, one in cell biology and one in molecular genetics, beginning July 1988. Qualifications include a Ph.D. and at least 2 years of relevant postdoctoral experience. One appointment will be made at the level of assistant professor, and one at the assistant, associate, or full professor level, depending on qualifications. The specific areas of interest are:

CELL BIOLOGIST. While applications from individuals working in any area of cell biology are welcome, we are particularly interested in those using modern molecular techniques to address problems in cell motility, cell division, or molecular targeting.

MOLECULAR GENETICIST: For this position, we seek an individual with a strong background in modern molecular biology. The area of research expertise is open; of greater importance is the ability of the successful individual to interact with and complement current departmental faculty interests in cell, molecular, and developmental biology.

The successful candidates will participate actively in the undergraduate and graduate teaching programs of the department as well as initiate a vigorous, independent research program that will attract outside funding, enlist graduate student participation, and provide research experiences for exceptional undergraduates. To this end, the College offers a generous start-up package of major equipment plus expendable funds, in addition to departmental resources that include facilities for DNA synthesis, molecular graphics, TEM, SEM, video light microscopy, etc. Please send letters of application, curriculum vitae, reprints, a statement of research and teaching interests, and at least three letters of recommendation to: Search Committee, Department of Biological Sciences, Dartmouth College, Hanover, NH 03755. Application review will begin on 15 October 1987. Dartmouth is an Equal Opportunity/Affirmative Action Employer. Applications from women and members of minority groups are strongly encouraged.

CONNECTIVE TISSUE MOLECULAR BIOLOGIST POSTDOCTORAL FELLOW

A postdoctoral fellow or research associate position is currently available for a nucleic acid molecular biologist interested in participating in studies designed to investigate the structure and regulation of human connective tissue proteoglycan core genes. Candidates should preferably have experience in procedures in recombinant DNA technology such as: DNA sequence analysis; construction and screening of genomic and cDNA libraries; eukaryotic RNA and DNA isolation; Northern, Southern and RNA dot blot analyses and tissue culture. Salary and position compatible with experience. Send curriculum vitae and names/addresses of three references to: Dr. Kevin L. Dreher, Staff Scientist, Weis Center for Research, Geisinger Clinic, Danville, PA 17822. Equal Opportunity Employer M/F/H.

POSITIONS OPEN

CARDIOVASCULAR PHYSIOLOGIST. Supervisory position at NASA/Johnson Space Center for a cardiovascular physiologist interested in cardiovascular response to spaceflight. Ph.D. or equivalent experience. Please submit résumé to: KRUG International, P.O. Box 58827, Houston, TX 77258, Attention: June E. Richmond. KRUG International is an Equal Opportunity, Affirmative Action Employer. Employment eligibility verification required.

CHEMIST, ORGANIC (Research Associate): Require Ph.D. with graduate or industrial experience in use of organoselenium methodologies, amino acids, carbanion and photochemical reactions to make heterocyclic natural products and strained carbocyclic compounds. Position involves research in above areas using IR, MS, UV, NMR (¹H and ¹³C) spectrometers, polarimetry and chromatography techniques. \$16,000 per year, 40 hours per week. Send résumé, three references from persons familiar with applicant's research to: Dr. A. G. Schultz, Department of Chemistry, Rensselaer Polytechnic Institute, Troy, NY 12180. Affirmative Action/Equal Opportunity Employer.

COGNITION AND BEHAVIORAL NEUROSCIENCE

The Department of Psychology, Northwestern University, invites applications for several regular faculty positions in the intersection of Cognition and Behavioral Neuroscience; level open. To apply, send a letter, curriculum vitae, copies of recent publications, and at least three letters of recommendation to: Neuroscience Search Committee, Department of Psychology, Northwestern University, Evanston, IL 60208. Northwestern University is an Affirmative Action/Equal Opportunity Employer.

COGNITIVE SCIENCE

The Department of Psychology, Northwestern University, invites applications for several regular faculty positions in cognitive psychology; level open. This recruitment is part of an initiative to develop a program in cognitive science. Candidates with substantive interests in interdisciplinary activities such as artificial intelligence and linguistics are welcomed. To apply, send a letter, curriculum vitae, copies of recent publications, and at least three letters of recommendation to: Cognitive Search Committee, Department of Psychology, Northwestern University, Evanston, IL 60208. Northwestern University is an Affirmative Action/Equal Opportunity Employer.

DEAN COLLEGE OF AGRICULTURE IOWA STATE UNIVERSITY AMES, IOWA 50011

Iowa State University invites nominations and applications for the position of Dean of the College of Agriculture and Director of the Iowa Agriculture and Home Economics Experiment Station. The College of Agriculture is one of nine colleges in a university with more than 26,000 students. The college is composed of 16 departments with 21 major curricula. Fifteen of the departments offer masters and 14 offer Ph.D. degree programs. The college has 260 faculty members and enrolls 2900 students.

The dean is expected to provide innovative and dynamic leadership in a college with a long tradition of excellence in teaching, research, and agricultural extension. Candidates for the position must hold a doctoral degree in a relevant field, have substantial administrative experience, have a distinguished record of scholarly and creative achievements, be committed to excellence in teaching and research, and be qualified for appointment to the rank of professor in a department in the college.

Persons interested in the position should submit a letter of application and curriculum vitae, with names and addresses of at least three references to:

The Chair of the Search Committee:
Norman L. Jacobson
Associate Vice President for Research
201 Beardshear
Iowa State University
Ames, IA 50011

Applications will be accepted until 25 November 1987. Nominations of qualified persons are also invited. Iowa State University is an Equal Opportunity/Affirmative Action Employer.

QUIDEL, a rapidly growing pharmaceutical company in La Jolla, California, invites applicants for these positions

**RESEARCH SCIENTIST/
PROJECT LEADER DIAGNOSTICS**

Highly qualified scientists sought to be Research Scientists or Project Leaders in development of advanced rapid immunodiagnostic products. Successful candidate will be energetic, talented, well-trained Ph.D. or M.D. with background in biochemistry, or related field, and have a desire to perform bench research. Candidates with industrial product development experience in virology (HIV), apolipoproteins, allergy, or cancer are preferred.

R & D TECHNICIANS

Bachelors degree in science required with a solid knowledge of biochemistry and a desire to develop unique diagnostic products.

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

QUIDEL

Attn: John F. Burd, Ph.D.
V.P. Diagnostic R & D



11077 North Torrey Pines Rd., La Jolla, CA 92037
Equal Opportunity Employer M/F/H

DRUG METABOLISM CHEMIST

A leading upstate New York Pharmaceutical Company is seeking a person with a Ph.D. in Separation Chemistry with consideration given to alternative disciplines such as Biochemistry, Organic Chemistry or Natural Products Chemistry.

The successful candidate will have in-depth knowledge of bio-organic chemistry, drug metabolism, and an understanding of instrumental analytical techniques. Experience in instrumental analysis would be viewed favorably.

Norwich Eaton Pharmaceuticals, a Division of the Procter and Gamble Company, offers all the advantages of a small company and a large corporation. We are located approximately 200 miles northwest of New York City in Central New York. Competitive salaries, our benefit package, and the working and living environment combine for an opportunity that is difficult to match.

To respond please forward your C.V. to: Nicholas W. Andrews, Personnel Representative, Norwich Eaton Pharmaceuticals, Inc. A Procter & Gamble Company, 17 Eaton Avenue, Norwich, NY 13815

An Equal Opportunity Employer

MANAGER PARENTERAL PILOT PLANTS

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

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

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

Investigate your future at Wyeth. For prompt, entirely confidential consideration, please send resume with salary history to: **Position #WC001, Recruitment Manager, Wyeth Laboratories, Inc., P.O. Box 8299, Philadelphia, PA 19101.** Equal Opportunity Employer M/F/H/V responses encouraged.

Wyeth Laboratories



STATE UNIVERSITY OF NEW YORK AT BUFFALO BIOLOGICAL SCIENCES—FACULTY OPENINGS

TWO ASSISTANT PROFESSORSHIPS: Our goal is to hire individuals who can interact with other members of our faculty and whose research program is in the forefront of his/her field. Serious candidates will be expected to be utilizing modern genetic and molecular approaches to the study of one of the following areas: (a) the **immune system** at the cellular level, (b) the development of an organism which provides a model system for studies in **development**, or (c) regulation in an organism to provide a model for studies of regulation at the level of **gene transcription**.

Successful candidates will be expected to have completed at least two to three years of post-doctoral experience, demonstrate experience in a productive research program, be able to describe in detail plans for future research activities, and show promise for establishing a fundable independent research program.

Candidates will also be expected to demonstrate above average teaching ability for both undergraduate and graduate teaching. **Salary will be nationally competitive; excellent laboratory space and equipment available.**

To apply, candidates must submit a curriculum vitae, including a statement of research background and teaching experience, and at least three letters of reference, to **Dr. Darrell Doyle, Chairman, Department of Biological Sciences, 109 Cooke Hall, State University of New York at Buffalo, Buffalo, NY 14260.** Application deadline is December 18, 1987.

State University of New York is an Affirmative Action/Equal Opportunity Employer.

Thomas T. and Elizabeth C. Tierney Chair in Peace Research University of California, Irvine

Distinguished scholars from any discipline are invited to apply for the Thomas T. and Elizabeth C. Tierney Chair in Peace Research at the University of California, Irvine. This chair was established by the donor from the conviction that universities can make a significant contribution to world peace by performing research, teaching new and established knowledge to the new generation of leaders, and providing opportunities for citizen education and public service. The candidate should have a distinguished research record which includes significant work in the area of Peace and Conflict Studies and must be eligible for a professorial appointment in one of the academic units on campus. Additionally, he/she will be expected to participate with the Global Peace and Conflict Studies faculty, an interdisciplinary group studying international violence with a focus on the dangers of nuclear war and the challenge of creating a satisfactory and stable peace. The holder of the endowed Chair will be designated as the Thomas T. and Elizabeth C. Tierney Professor in Peace Research. Please send resumes to:

Executive Vice Chancellor Lillyman
Attn: Dr. Harriet Press,
Academic Affairs
University of California, Irvine
Irvine, CA 92717

Equal Opportunity /
Affirmative
Action Employer

**Discover
UCI**

INDUSTRIAL TOXICOLOGIST

At WARNER-LAMBERT, a multinational leader in pharmaceuticals and consumer products, we recognize that each job and every person is essential to our success.

The highly motivated individual we seek will play a key role in developing and implementing new programs in industrial toxicology. Responsibilities will include retrieving and analyzing toxicology information on compounds of interest, as well as participating in designing, monitoring and evaluating toxicology studies carried out at contract laboratories. The ability to assist in the implementation of a computerized data retrieval system is a must. In addition, you will maintain up-to-date information on regulations pertaining to toxic substances as established by OSHA, EPA, NIOSH, DOT, FDA and other agencies.

This position reporting to the Manager, Industrial Toxicology Research requires a Ph.D. in toxicology, pharmacology or a related field with 0-1 year experience. Computer literacy, excellent verbal and written communication skills and the ability to work independently are required.

Qualified candidates should submit resume with salary requirements to: Ms. Robin Bachman, Corporate Human Resources, WARNER-LAMBERT, 201 Tabor Road, Morris Plains, New Jersey 07950.

WARNER-LAMBERT

Equal Opportunity In Action

Associate Director Clinical Neuroscience

Merck Sharp & Dohme Research Laboratories, a leader in pharmaceutical research, is seeking an M.D., or M.D. Ph.D. for its clinical neuroscience research group in Blue Bell, Pennsylvania. The successful candidate should have extensive training in neuropharmacology and neurology. Previous industrial clinical research experience in CNS drug evaluation and development is desirable.

Responsibilities will include the planning and coordination of clinical investigations with new Merck CNS drugs under development. This includes the preparation of clinical development plans for each compound, the preparation of protocols for clinical studies, interactions with academic investigators, the evaluation of clinical data collected and responsibility for reports of the study results. The position involves some travel. Attendance at key scientific meetings is encouraged.

Merck & Co., Inc. offers excellent salary opportunities and a benefit program that includes an employee stock purchase program, a tax-sheltered income plan, group life insurance, major medical and dental coverage, educational assistance and relocation. Our clinical neuroscience research facilities are located in an attractive suburban Philadelphia area.

Please reply in complete confidence to:
John R. Taylor (BL1-1)

**Merck Sharp & Dohme
Research Laboratories**

West Point, PA 19486

EEO/AA/VH/Employer



Merck & Co., Inc.

Post Doctoral Training In Molecular And Cell Biology

Post doctoral fellowships are available for training in various areas of cancer research including cell differentiation, chemical carcinogenesis, retroviruses, membrane biochemistry, genetics and immunology. The Wistar Institute, the oldest independent biomedical research facility in the nation, is located on the University of Pennsylvania campus in Philadelphia. Wistar is organized as a community of laboratories, uniting investigators whose broad research objectives are concerned with defining cellular and molecular characteristics and function in healthy and diseased organisms. Wistar is equipped with the latest scientific technologies — DNA and peptide syntheses, flow cytometry and hybridoma facilities.

Strong background in molecular biology, virology, biomedical genetics and/or protein chemistry is required. Applicants are requested to send curriculum vitae and the names of three references to Dr. Giovanni Rovera, Coordinator of Research Training, THE WISTAR INSTITUTE, 36th & Spruce Streets, Philadelphia, PA 19104. Equal opportunity employer, M/F.

**THE
WISTAR
INSTITUTE**



**NATIONAL CANCER INSTITUTE
National Institutes of Health, Public Health Service
CANCER PREVENTION FELLOWSHIP PROGRAM, CPFP**

The DIVISION OF CANCER PREVENTION AND CONTROL is accepting applications for CPFP. The primary purpose of this program is to attract individuals from a multiplicity of health science disciplines into the field of cancer prevention and control research. The program provides for: participation in DCPC Cancer Control Academic Program (a formal four-month course in cancer prevention and control); 20 months at NCI working directly with individual preceptors on ongoing cancer prevention and control projects and the NCI Year 2000 Goals; one year at a DCPC-approved cancer control program or State Health Department (may be optional). Funding permitting, up to 10 Fellows will be accepted for up to three years of training, beginning on August 28, 1988.

APPLICANTS MUST (BY THE DEADLINE): (1) Possess an M.D. or D.O. degree from an accredited medical school in the U.S., Puerto Rico, or Canada. (Foreign medical graduates—American citizens or Resident Aliens who have received their medical degree from a medical school outside the U.S., Puerto Rico and Canada and that is listed in the World Health Organization's *World Directory of Medical Schools*—must be certified by the Educational Commission for Foreign Medical Graduates [ECFMG]. Current certification, ECFMG or Foreign Medical Graduate Examination in the Medical Sciences [FMGEMS], is required for all foreign medical graduates.) Must have satisfactorily completed an internship (PGI) approved by the Council on Medical Education. (However, application will be accepted when internship is an integral part of medical school curriculum or incorporated as part of residency training.) —OR— Possess other accredited U.S., Puerto Rican, or Canadian doctoral degree (Ph.D., Dr. P.H., D.D.S., etc.) in a discipline related to cancer prevention and control research; biomedical, medical, nutritional, public health or behavioral sciences. (Foreign doctoral graduates must provide documented evidence that the foreign education is comparable to doctoral education received in accredited institutions noted above.); (2) Possess U.S. citizenship or be a resident alien eligible for citizenship within four years; (3) Complete and return the application packet by the deadline (including arranging for official academic transcripts and four, current, original letters of reference to be sent directly by the academic institutions and referees to the CPFP Coordinator).

For questions concerning the program's scientific or administrative aspects, please call Dr. David Poskanzer or Ms. Nancy Garner, respectively. Application packets may be obtained by sending a *POSTCARD* with your name and home address to **CPFP Coordinator, NIH/NCI/DCPC/CCAB, Blair Building, Room 4A05, 9000 Rockville Pike, Bethesda, MD 20892-4200**, or call (301) 427-8788. Please do not send any material until after you have read the instructions in the application packet.

*DEADLINE FOR RECEIPT OF APPLICATIONS: JANUARY 15, 1988
(The NIH is an Equal Opportunity Employer)*

**CHAIR,
DEPARTMENT OF MEDICINE
COLLEGE OF MEDICINE**

The Pennsylvania State University College of Medicine is seeking a chairperson in Medicine to succeed Graham H. Jeffries, M.B., Ch.B., D.Phil (Oxon) who has decided to retire from the Chair. The Department has a history of excellence in patient care and teaching and its faculty are leaders in their fields of research. The new chairperson will continue to develop and expand the Department in all areas of patient care, research, and scholarship. The Department currently trains residents and fellows in 12 approved programs. Candidates should have an outstanding record as a clinician, researcher, and educator and should also have proven leadership skills.

Applications or nominations should be addressed to:

**John A. Waldhausen, M.D.
Chairman, Search Committee
for Chair of Medicine
The Pennsylvania State University
College of Medicine
The Milton S. Hershey Medical Center
P.O. Box 850 — A
Hershey, Pennsylvania 17033**

The deadline for applications is November 30, 1987.

The Pennsylvania State University is an equal opportunity affirmative action employer.

STRATAGENE

■ Research Program Director

Stratagene is looking for individuals who can assume the role of research program director. Qualified applicants must have an ongoing research program and have demonstrated the ability to obtain research support in the form of grants or contracts in the areas of genetic disease, genome mapping, mammalian cell biology, or mammalian gene expression, the latter preferably with relevance to expression in transgenic animals. Corporate matching funds are available to supplement research programs supported by grants. In addition, technical support and reagents will be available from Stratagene's molecular biology research products division. Stratagene offers an extremely attractive compensation package to qualified individuals, including a substantial stock option plan.

Stratagene's financial success has allowed it to relocate its research facility to the heart of La Jolla's research community. The Salk Institute, Scripps Clinic, and the University of California, San Diego are among the numerous academic and commercial research centers within one mile of the new Stratagene location. The new site is adjacent to the Torrey Pines State Reserve, offering miles of coastal hiking and jogging trails leading to the Pacific Ocean.



STRATAGENE

*Inquiries will be accepted
in strict confidence by:*

Candra A. Carter
Administrative Coordinator
Stratagene
11099 North Torrey Pines Road
La Jolla, CA 92037

Biochemistry Research

The Upjohn Company, recognized as a world leader in pharmaceutical research and development, is seeking applicants for a Biochemistry Research position in Biotechnology Product Development in our Control Division. The successful candidate will have experience in protein separation techniques such as HP-SEC, SDS-PAGE, IEF, and reverse phase liquid chromatography. Experience in ELISA, RIA and Western blotting is also desirable. Responsibilities will include methods development on new protein therapeutics developed by our Product Discovery area. The candidate will join an inter-disciplinary team participating in product registration issues on a worldwide basis. This position requires either an M.S. in Biochemistry or Biology, or a B.S. in a biological science and a minimum of 3 years of relevant experience.

Kalamazoo is located in Southwestern Michigan midway between Chicago and Detroit and offers varied cultural events, cosmopolitan shopping and entertainment, lakes and woodlands minutes away, abundant year-round sports and recreation. Upjohn offers a highly competitive salary commensurate with experience, comprehensive benefits and relocation assistance. For confidential consideration, please call from outside of Michigan toll free 1/800/253-8600, ext. 3-6767, (inside Michigan call collect 616/323-6767) to request an employment application be sent to you immediately. Please refer to ad number 20679-A when calling.

Upjohn

Our commitment to scientific excellence continues...

An Equal Opportunity Employer M/F

POSITIONS OPEN

CHAIRPERSON DEPARTMENT OF MEDICINAL CHEMISTRY UNIVERSITY OF UTAH

The College of Pharmacy, University of Utah, invites applications and nominations for the position of Chairperson for the Department of Medicinal Chemistry. Candidates must have a strong research program, with demonstrated leadership and administrative abilities, and a strong commitment to graduate and professional education. The Chairperson will have the opportunity to recruit new faculty, and to play a major role in the continuing development of a research-oriented department with interests in structure and chemistry of biological molecules, natural products and bioorganic chemistry, and biological mechanisms.

Applicants should send curriculum vitae and names of three references, by 31 October 1987, or until a suitable candidate is identified, to: **Dr. James A. McCloskey, Chairman, Search Committee, Department of Medicinal Chemistry, Skaggs Hall, University of Utah, Salt Lake City, UT 84112. An Affirmative Action/Equal Opportunity Employer.**

DIRECTOR, BIOTECHNOLOGY

Western New York Technology Development Center, Inc., which assists in the creation of new jobs by linking the technical resources of regional academic and research institutions with the needs of private enterprise, has an opening for a Director, Biotechnology. Major responsibilities are to act as a technical interface between industrial biotechnical needs and academic resources, as well as to assist in the formation of new biotechnical companies through the management of a university business incubator. The successful candidate will have an undergraduate degree in science or engineering with a graduate degree in science, engineering or business administration. Excellent technical, analytical and communications skills are critical. Experience in academic or industrial research is desired. For confidential consideration, please submit résumé and salary history to: **Western New York Technology Development Center, 2211 Main Street, Building C, Buffalo, NY 14214. An Equal Opportunity Employer M/F/H/V.**

DIRECTOR, INSTITUTE FOR PHYSICAL SCIENCES AND TECHNOLOGY UNIVERSITY OF MARYLAND COLLEGE PARK

The University of Maryland, College Park, invites nominations and applications for the Director of the Institute for Physical Sciences and Technology.

The Institute is an interdisciplinary research unit with strong ties to several academic departments. Current areas of research include applied mathematics, atmospheric science, fluid mechanics, optical physics, physics of condensed matter, statistical mechanics. The present faculty numbers approximately 43, including several joint appointments with other academic units.

The Director is responsible for selecting and developing significant new research initiatives in science and engineering, and for enhancing appropriate ongoing research projects in those areas.

Nominations and applications received by 15 December 1987 will be given full consideration.

Response to this advertisement should be sent to:

**Edward F. Redish, Chairman
IPST Director Search Committee
Physics Department
University of Maryland
College Park, MD 20742**

An Equal Opportunity/Affirmative Action Employer.

EVOLUTIONARY BIOLOGIST—1½-year replacement position to begin February 1988. Initial teaching responsibilities include two upper level courses in appointee's area of expertise plus one introductory course laboratory section. Preference given to candidates qualified to teach any of the following: Vertebrate diversity, comparative vertebrate anatomy. Ph.D. strongly preferred. Send letter of application outlining interests, current curriculum vitae, and names and addresses of three references before 9 October 1987 to: **Dr. Jack E. Harderode, Chair, Department of Biology, Bucknell University, Lewisburg, PA 17837. Telephone: 717-524-1961. An Affirmative Action/Equal Opportunity Employer.**

POSITIONS OPEN

DIRECTOR OF SURGICAL RESEARCH

The Department of Surgery at the University of Iowa is seeking applicants for Director of Surgical Research. Administrative responsibilities include supervision of support staff and determining operational needs. The director is required to conduct independent research and to interact with clinicians to meet their research needs. The position requires a doctoral degree in a Natural or Health Science. Experience in immunobiology is preferred. Salary and rank are commensurate with education and experience.

Send curriculum vitae to: **Robert J. Corry, M.D., Professor and Head, Department of Surgery, The University of Iowa Hospitals and Clinics, Iowa City, IA 52242. The University of Iowa is an Equal Opportunity/Affirmative Action Employer.**

LEONARD WOOD MEMORIAL PHILIPPINES DIRECTOR OF SCIENTIFIC FACILITY

The Leonard Wood Memorial (American Leprosy Foundation) is seeking a resident director for its field laboratory in Cebu, Philippines. The facility staffs 22 professional and non-professional employees. Responsibilities will include direction of the Cebu scientific program. This includes basic scientific, epidemiologic and clinical investigative programs. Prior experience in basic and field research in tropical medicine will be taken into account in evaluation of candidates.

Submit résumés and curriculum vitae to:

**Wayne M. Meyers, M.D., Ph.D.
Acting Scientific Director
Leonard Wood Memorial
11600 Nebel Street—Suite 210
Rockville, MD 20852.**

Responses will be kept confidential.

ENDOCRINOLOGIST

Board-certified/eligible endocrinologist with strong background and commitment to laboratory and clinical research and teaching. Experience in diabetes and lipoprotein research desirable. Reply to: **A. K. Khachadurian, M.D., Department of Medicine, UMDNJ—Robert Wood Johnson Medical School, CN-19, New Brunswick, NJ 08903-0019. Equal Opportunity/Affirmative Action Employer M/F/H/V.**

ENGINEERING AND PUBLIC POLICY joint appointments are available with the Department of Electrical and Computer Engineering and the Department of Mechanical Engineering for candidates who hold a Ph.D. in engineering and wish to teach and pursue technical and policy related research on topics such as telecommunications policy, policy issues in information technology, industrial policy, flexible manufacturing, robotics, and design. Send résumé, references and sample of writing to: **Professor M. Granger Morgan, Head, Department of Engineering and Public Policy, Carnegie Mellon University, Pittsburgh, PA 15213.**

ENVIRONMENTAL SCIENTIST/ENGINEER

The Board of Environmental Sciences and Toxicology of the National Research Council is seeking a staff officer with experience in policy applications of scientific data, scientific writing, editing. This individual will conduct or assist in the conduct of studies dealing with research innovations and new applications of physical science or engineering (chemical or environmental) to environmental problems. Skills should include understanding of the use of scientific information in decision-making, the demonstrated ability to integrate data from a wide variety of disciplines, interpersonal communication, and technical writing. Doctoral degree or equivalent is required in the area of environmental science or chemical or environmental engineering. Experience is desirable. Applicants should submit in confidence curriculum vitae, samples of recent publications, and references to: **K. Hulebak, Position #459.066, NRC/BEST, 2101 Constitution Avenue, NW, Washington, DC 20418. An Equal Opportunity Employer.**

POSITIONS OPEN

ELECTRONICS DESIGN

Small (50 employees), growing manufacturer of biomedical science instrumentation seeks a talented individual for hardware and software design. Formal electronics training desirable, but not a requirement for individual with proven abilities. Ph.D. in physiology or one of the life sciences a plus. Chicago location. Please submit résumé, salary requirements and all other relevant data to: **Box 83, SCIENCE.**

ENVIRONMENTAL BIOLOGIST

The Board on Environmental Studies and Toxicology of the National Research Council is seeking a professional in the area of ecology, environmental biology, or a closely related biological or biomedical field. This individual will act as project manager for a study on Markers of Pollutant Exposure of Trees and assist with a study on the outer continental shelf. Duties will include working with a committee of experts, providing intellectual overview of the report. A Ph.D. or equivalent is required with several years in research, teaching, or administration in environmental research, policy, or program work. Must understand the utilization of scientific information in decision-making and have the ability to integrate data from a wide variety of disciplines. Applicants should submit in confidence curriculum vitae and a recent publication or writing sample, and names of references to: **D. Policansky, NRC/BEST, 2101 Constitution Avenue, NW, Washington, DC 20418. An Equal Opportunity Employer.**

FACULTY POSITION

The University of Texas—Houston, School of Public Health, is seeking applicants for a tenure-track position in hazardous waste management. Applicants should have a doctoral degree, with a strong background in science or engineering. Assistant or associate level can be applied for depending on qualifications. Responsibilities consist of teaching M.S./Ph.D./M.P.H./Dr.P.H. programs and conducting research in a multidisciplinary setting. Applicants should send a detailed résumé by 1 November 1987 to: **Dr. E. M. Davis, Professor, Environmental Science, The University of Texas, School of Public Health, P.O. Box 20186, Houston, TX 77225. An Equal Opportunity Employer. Women and minorities are encouraged to apply.**

FACULTY POSITION IN BIOCHEMISTRY. Applications are invited for a tenure-track position in the Department of Biology. Ability to develop a viable, independent research program and a commitment to undergraduate and graduate teaching are essential. The candidate is expected to have an active research program in cellular biochemistry and be interested in interacting with existing programs in the department. Postdoctoral experience required. Send curriculum vitae, statement of research interests, copies of pertinent reprints, and names of three referees by 26 October 1987 to: **Dr. A. E. Linkins, Chairman, Biology Department, Clarkson University, Potsdam, NY 13676. Clarkson is an Affirmative Action/Equal Opportunity Employer.**

FACULTY POSITION BIOCHEMISTRY/MOLECULAR BIOLOGY UNIVERSITY OF ILLINOIS

The Department of Biochemistry at the University of Illinois invites applications for a tenure-track faculty position which will be available starting in August 1988. Salary and rank are dependent upon qualifications. Candidates must have demonstrated exceptional research ability in dynamic areas of biochemistry or molecular biology, and must be prepared to establish an independent research program and to contribute to graduate and undergraduate teaching programs. A Ph.D. and postdoctoral experience in biochemistry or a related field are required. For full consideration, applicants should submit curriculum vitae, a brief description of their research interests, and three letters of reference by 1 December 1987 to: **Professor Edward Conrad, Chair, The Biochemistry Search Committee, Department of Biochemistry, University of Illinois, 1209 West California Street, Urbana, IL 61801. Telephone: 217-333-3900.**

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

RESEARCH OPPORTUNITIES

BURROUGHS WELLCOME CO. is a progressive pharmaceutical company which has a top reputation for innovative research. We are located in Research Triangle Park, North Carolina, and have a close research contact with three major universities. Several opportunities are immediately available in the Experimental Therapy Department. Positions and requirements are as follows:

EXPERIENCED ENZYMOLOGIST

An excellent opportunity for a creative person with a PhD in Biochemistry (or the equivalent) and several years of productive experience in enzymology (preferably with protease enzymes) to perform "hands-on" bench research in the Enzymology Section. The successful candidate will join T. Spector's group of mechanism-oriented enzymologists who actively collaborate with Biologists, Virologists and Chemists.

ASSOCIATE RESEARCH PHARMACOLOGIST

The Metabolic Studies Laboratory is looking for an individual to investigate the metabolic disposition of potentially therapeutic agents in experimental animals and man. Applicants must have an MS degree in pharmacology, biochemistry or a related discipline (or equivalent experience and training) with a strong analytical background. Experience with conventional and high performance liquid chromatography, extraction techniques and immunoassays is preferred. Experience with small animal handling, including minor surgery, is desired. Competence with computers is required.

CELL BIOLOGIST/ MOLECULAR BIOLOGIST

The Cell Biology Section is seeking a qualified individual to participate in expanding research programs employing recombinant DNA technology. Current research efforts involve neoplastic disease, antiviral research and extensive collaborations with other members of the Company. This newly created position requires an individual with a PhD degree or an MS degree (or equivalent) with appropriate hands-on experience and publication record. Cell culture experience is required while molecular biology experience is strongly desired.

BURROUGHS WELLCOME CO. offers a competitive salary, a comprehensive company-paid benefits package, and a challenging environment in which to apply your professional capabilities. Qualified minority, female, veteran, and handicapped individuals are encouraged to apply. To apply, submit a curriculum vitae, transcripts, and pertinent reprints, and indication of position applying for to: **Employment Supervisor, BURROUGHS WELLCOME CO., 3030 Cornwallis Road, Research Triangle Park, NC 27709**



**BURROUGHS
WELLCOME CO.**



Wellcome

An Equal Opportunity/Affirmative Action Employer

Project Leaders

If you are a strongly motivated scientist who can bring a high level of enthusiasm to meeting exciting challenges, the Agricultural Research Division of American Cyanamid Company has two immediate opportunities for you to do so. As a Project Leader in the Biochemistry & Physiology Group of our Department of Animal Industry Discovery & Biotechnology, you will be joining a team of scientists committed to achieving breakthrough developments. Previous experience supervising one or more research scientists is necessary.

One post carries responsibility for planning, establishing, and executing a research program aimed at investigating and identifying immunological methods of enhancing animal production. It calls for an innovative Immunologist who will appoint a research team and be able to exploit recent immunological discoveries within a stimulating and satisfying research environment. Interaction with molecular and cellular biologists will be encouraged. A PhD in Immunology with at least two years postdoctoral experience is required. Knowledge of peptide immunology and idiotype antibody production would be an advantage.

The second post carries responsibility for leading a team currently assessing compounds as potential growth promotants and/or repartitioning agents. A minimum of administration is involved with the primary objective being to develop and establish new and innovative screens. A PhD in Biochemistry or Physiology with at least two years postdoctoral experience is required. A knowledge of muscle and fat biochemistry/physiology and experience in receptor technology would all be a plus.

American Cyanamid offers a competitive compensation and benefits package. For prompt and confidential consideration, forward your resume and salary history (indicating the position of interest) to the Employment Office.



American Cyanamid Company

Agricultural Research Division

P.O. Box 400

Princeton, NJ 08540

An Equal Opportunity Employer M/F/H

PHYSICAL OCEANOGRAPHER

Applications are sought for appointments to the Scientific Staff of the Department of Physical Oceanography in the Meteorology group. Appointments can be at the Assistant, Associate or Senior Scientist level, depending upon background, experience and tenure suitability. Applicants should have a doctoral degree in Physical Oceanography or related field with some post-doctoral experience in numerical modeling, theory, and/or field work preferred. Applicants with interest in climate dynamics, air-sea interaction, marine meteorology and/or marine cyclogenesis are particularly encouraged to apply. Curriculum vitae and publication lists should be sent to Robert C. Beardsley, Chairman.

Box 54P



**WOODS HOLE
OCEANOGRAPHIC
INSTITUTION**

Woods Hole, MA 02543

An equal opportunity employer M/F/H/V

Medicinal Chemist

The Medicinal Chemistry Department of Smith Kline & French Laboratories seeks an outstanding organic chemist to work in a state-of-the-art research facility in the Philadelphia suburbs, near Valley Forge. The selected individual will assist in the design and synthesis of receptor antagonists and molecules destined to interrupt enzymatic processes. Experience in synthetic organic chemistry is essential.

The successful candidate will possess the following:

- B.S. or M.S. in Chemistry or equivalent experience.
- Excellent working knowledge of reaction mechanisms.
- Skill in modern methods of isolation and purification of reaction products.
- Experience in the use of modern physical methods to determine the structure of reaction products.
- An ability to communicate results effectively.

We offer an excellent compensation, benefits and relocation package as well as the opportunity for personal and professional growth. For confidential consideration, send your C.V. and names of three references to Mr. Robert F. Obst, R0090, R&D Senior Employment Consultant, SmithKline Beckman Corporation, P.O. Box 1539, King of Prussia, PA 19406-0939. We are an Equal Opportunity Employer, M/F/H/V.

SK&F

A SmithKline Beckman Company

SHOWA UNIVERSITY RESEARCH INSTITUTE FOR BIOMEDICINE announces the establishment of a Department of Cellular Biochemistry. The Institute, which is non-profit, is seeking a highly motivated **SENIOR INVESTIGATOR** with established leadership capabilities to serve as Chairman. This department, which will occupy approximately 8,000 sq. feet of laboratory space, will be comprised of five independent laboratory programs in the general area of cancer biology with particular emphasis being placed on the characterization of underlying mechanisms at the molecular genetic level. Investigations in this department will complement studies in the already established Departments of Virology and Molecular Genetics.

Showa University Research Institute is unique in its affiliation with a major Japanese medical university. The Institute is based in a new facility with excellent individual laboratory and office space and centralized services, including a biotechnology laboratory. Its central location within the rapidly growing Tampa Bay area is most attractive. Investigators are allowed complete freedom to pursue research goals and while generous program support is provided, scientists are expected to secure extramural funding. An internationally recognized group of scientists comprise the Scientific Advisory Board.

Institute professional staff hold academic ranks at the University of South Florida. A full range of pre-doctoral and postdoctoral training programs involving the Institute, Showa University Medical School in Tokyo and the University of South Florida are ongoing as are collaborative relationships with Bay area hospitals and clinics.

Individuals interested in the position should send their curriculum vitae, a list of publications and the names of five references to: **Chairman, Search Committee, Showa University Research Institute for Biomedicine, 10900 Roosevelt Boulevard, St. Petersburg, Florida 33702.**

A not-for-profit organization/equal opportunity employer.

CELL BIOLOGIST / BIOCHEMICAL ENGINEER

Merck Sharp & Dohme Research Laboratories is offering an excellent career opportunity for a creative biochemical engineer/cell biologist to apply innovative cell culture and bioreactor technologies to the maintenance and scale-up of hybridoma and a wide variety of recombinant DNA-derived cell lines, as well as to do original research on scale-up optimization and methodology.

The successful candidate will be the operating head of a mammalian cell culture scale-up facility and will interact with molecular biologist, cell biologists, immunologists and biochemical engineers on some of the company's leading projects.

Candidate must have a Ph.D. degree or equivalent experience in a relevant discipline and significant experience in both cell biology as well as scale-up culture technology.

Merck Sharp & Dohme Research Laboratories is located in Rahway, New Jersey, 25 miles from New York City. Our salary, benefits, and growth potential are excellent. Interested applicants should submit a curriculum vitae with three professional references whom we may contact and salary requirements in complete confidence to: **Susan R. Jenkins, Merck Sharp & Dohme Research Laboratories, Research Personnel, P.O. Box 2000, Rahway, NJ 07065.**

EEO/AA/VH Employer.



Merck & Co., Inc.

TECHNICAL MANAGER

UNC Geotech in Grand Junction, Colorado is seeking a senior-level Technical Manager experienced in hazardous waste management and environmental protection programs. The position will manage analytical laboratory programs involved in hazardous waste analysis.

The position requires an advanced degree or equivalent in an Environmental Science or related area and ten or more years experience.

We offer competitive salaries, relocation and excellent benefits. Please send resume including salary history to:

**UNC Geotech
P.O. Box 14000
Grand Junction, CO
81502-5504**

UNC Geotech

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Sunnybrook Medical Centre
University of Toronto

DIRECTOR OF RESEARCH

Sunnybrook Medical Centre, a 1200-bed University of Toronto teaching hospital with well-established and strong clinical departments, is a young institution with no rigid traditions. Our goal is to develop a first-class research facility. We require a Director of Research with vision who will take us farther along toward this goal, providing innovative leadership to diverse research programs being conducted at bench and bedside. Areas of focus for research at our hospital are aging, oncology, mental health, trauma, cardiovascular disease and stroke, and liver disease.

We seek a Director of Research who holds an M.D. and/or Ph.D. degree and who has a record of research accomplishment, together with organizational and administrative experience. Academic rank and salary will be commensurate with qualifications and experience. Preference will be given to applicants who are eligible for employment in Canada at the time of application.

Inquiries and curriculum vitae should be sent to

Dr. Martin Barkin, President,
Sunnybrook Medical Centre,
2075 Bayview Avenue,
North York, Ontario M4N 3M5

Protein Chemist- Laboratory of Intrinsic Mediators

Position in a unique program, joint between Washington University Department of Pharmacology and Monsanto Company Biological Sciences Department.

The focus of the position is on isolation, characterization, synthesis and biological evaluation of intrinsic mediators. Candidates should have a minimum of 3 years' post doctoral experience in modern methods for protein isolation and analysis.

Apply to: Dr. Phil Needleman; Chairman, Department of Pharmacology; Washington University; 660 S. Euclid; St. Louis, MO 63110 or Dr. Gerald Galluppi; Director, Chemistry and Protein Engineering Biological Sciences Department; Monsanto Company; Mail Zone BB5E; 700 Chesterfield Village Parkway; St. Louis, MO 63198. An Equal Opportunity Employer M/F/H/V.

Monsanto

POSTDOCTORAL RESEARCH ASSOCIATES

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 two Postdoctoral Research Associates to participate in research programs using molecular biology to identify novel therapeutic approaches in diabetes and lipoproteins metabolism.

A Ph.D. in Molecular Biology, Biochemistry or related disciplines, as well as excellent written and oral communication skills are required. Experience with molecular biology techniques pertaining to eukaryotic gene regulation is preferred.

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:



Director of Human Resources (403-1)
SANDOZ RESEARCH INSTITUTE
SANDOZ PHARMACEUTICALS CORPORATION
East Hanover, New Jersey 07936

An Equal Opportunity Employer M/F/H/V

The *Uncommon* Company

Marion Laboratories, Inc. headquartered in Kansas City, Missouri, is involved in the development, manufacturing and sales of pharmaceutical, hospital and laboratory products. For the fourth consecutive year, net earnings for Marion Laboratories, Inc. increased more than 50% with net sales of \$500 million. Our continued growth and expansion allows us to seek an experienced individual for the following position in Kansas City.

SENIOR SCIENTIST- CARDIOVASCULAR PHARMACOLOGY AND PHYSIOLOGY

Marion Laboratories has an opening for an associate to head up an extramural program in the area of cardiovascular research. The responsibilities will include the identification and funding of basic research projects in developing areas of cardiovascular medicine.

The successful candidate should have a Ph.D. or equivalent in pharmacology, physiology or other related area. The candidate should also have a proven research and publication record in the cardiovascular area. Excellent oral and written communication skills are essential.

We offer a complete compensation and benefit package to include bonus, stock options, profit sharing, comprehensive group health, dental, and life insurance benefits. Qualified candidates should submit a detailed resume including salary history to: **Marion Laboratories, Inc., Recruiting & Placement, Dept. CJS, P.O. Box 9627, Kansas City, MO 64134.** Equal Opportunity Employer.

Marion
Laboratories, Inc.

An *Uncommon* Opportunity

POSITIONS OPEN

FACULTY POSITION IN BIOCHEMISTRY UNIVERSITY OF SOUTHERN CALIFORNIA SCHOOL OF MEDICINE

The Department of Biochemistry and the Comprehensive Cancer Center, University of Southern California School of Medicine invite applications for tenure-track faculty positions at the assistant or associate professor level. Individuals in the area of signal transduction, growth factor and protein biochemistry are particularly encouraged to apply.

Submit applications, including curriculum vitae, a statement of research interests, and the names of three references to: **Dr. Peter Jones, Director for Basic Research, USC Comprehensive Cancer Center, NOR 743, 1441 Eastlake Avenue, Los Angeles, CA 90033.** *Affirmative Action/Equal Opportunity Employer.*

FACULTY POSITIONS IN CARDIOVASCULAR/RENAL PHARMACOLOGY

The Department of Pharmacology, University of Tennessee, Memphis, is seeking candidates for two tenure-track positions available immediately, in cardiovascular/renal pharmacology at the ranks of associate professor or professor. Candidates should possess a Ph.D. degree in pharmacology or related discipline, or an M.D., and should have demonstrated excellence in research and commitment to teaching. Candidates will be expected to have an ongoing independent research program supported by national funding agencies. Although candidates in the area of cardiovascular-renal pharmacology will be given preference, applicants experienced in other areas of research will also be considered. Candidates for cardiovascular-renal should have a strong background in relevant physiological or biochemical studies. Other candidates should have appropriate experience in application of biochemistry, molecular biology, or immunology to pharmacology. Candidates will be expected to participate in teaching of pharmacology to professional and graduate students. *Applications from minority candidates and women are strongly encouraged.* Please submit, by 1 December 1987, curriculum vitae, the names of three references and a brief statement of future research plans to: **Murray Heimberg, M.D., Ph.D., Van Vleet Professor and Chairman, Department of Pharmacology, University of Tennessee, The Health Science Center, Memphis, TN 38163.** *The University of Tennessee is an Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITION IN CLINICAL PHARMACOLOGY UNIVERSITY OF ALABAMA AT BIRMINGHAM

The Division of Clinical Pharmacology and the Cancer Pharmacology Program at the University of Alabama at Birmingham invite applications for a tenure-track position at the assistant professor level (qualified candidates for higher level positions will be considered). Applicants should have an M.D./Ph.D. degree(s) and have completed their clinical training. In addition, applicants should have sufficient postdoctoral research experience to attract research support and to establish an independent research program. Individuals with a background in molecular biology interested in examining therapeutically relevant problems in the clinical setting are particularly encouraged to apply. Responsibilities include participation in both the clinical activities of the Department of Medicine and the teaching program of the Department of Pharmacology. Send curriculum vitae and summary of research plans to: **Robert Diasio, M.D., Director, Division of Clinical Pharmacology, University of Alabama at Birmingham, Birmingham, AL 35294.** *An Equal Opportunity/Affirmative Action Employer.*

MOLECULAR GENETICIST FACULTY POSITION

The Animal Sciences Department, Purdue University, is seeking an assistant professor (12-month, tenure-track) to conduct research in molecular genetics of domestic animals and teach at the graduate level. Ph.D. and postdoctoral experience in molecular genetics is required. Participation in Purdue's Biochemistry program is expected. Application deadline is 2 October 1987. Send curriculum vitae, reprints, and names and addresses of three references to: **Dr. B. G. Harmon, Head, Department of Animal Sciences, Purdue University, West Lafayette, IN 47907.** *Purdue University is an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

FACULTY POSITION IN DEVELOPMENTAL BIOLOGY

The Department of Biological Sciences invites applications from individuals with research interests in developmental biology for a tenure-track or tenured position. The successful candidate will be expected to develop or maintain a vigorous independent research program that utilizes modern techniques to address significant problems in developmental biology and to participate in our active graduate program. Applicants should send curriculum vitae, a brief description of research interests including a summary of future directions, and the names of three referees to: **Developmental Biology Search Committee, Department of Biological Sciences, Purdue University, West Lafayette, Indiana 47907.** Applications should be submitted by 15 December 1987. *Purdue University is an Equal Opportunity/Affirmative Action Employer.*

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. Although flexible, targeted areas include T cell biology, antigen presentation, mucosal immunity, and immunoregulatory molecules. 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 December 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 78284-7758.** *UTHSCSA is an Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITIONS—IMMUNOLOGY. Applications are invited for two full-time, tenure-track positions at the assistant, associate, or full professor levels. Applicants will be expected to establish independent research programs in immunology and to teach medical and graduate students. Opportunities exist for collaborative research with faculty in virology, the Cancer Center, and an active transplantation program. Start-up funding and ample space are available. Assistant professor applicants must have at least 2 years of postdoctoral research training, and those for higher levels a record of grant support. Send résumé, summary of research interests, and names of three references to: **Immunology Search Committee, Department of Microbiology, Medical College of Wisconsin, 8701 Wattertown Plank Road, Milwaukee, WI 53226.** Applications accepted until the positions are filled. *Affirmative Action/Equal Opportunity Employer.*

FACULTY POSITIONS IN MICROBIOLOGY

The Department of Biological Sciences, Purdue University, is currently recruiting individuals with teaching and research expertise in three different areas: (i) eukaryotic microbiology, (ii) microbial pathogenesis, and (iii) microbial diversity. Preference will be given to candidates with research interests directed toward basic molecular mechanisms in the field of specialization. The positions will be 12-month, tenure-track appointments, and can be filled immediately at any rank. Interested individuals should send curriculum vitae, including brief descriptions of research experience and plans, and lists of three references to: **Professor H. E. Umbarger, Chairman, Microbiology Search Committee, Department of Biological Sciences, Purdue University, West Lafayette, IN 47907.** Applications should be submitted by 30 November 1987. *Purdue University is an Equal Opportunity/Affirmative Action Employer.*

The Environmental Defense Fund (EDF) seeks **MARINE SCIENTIST**, preferably with expertise in polar regions and advanced degree in marine biology or related field. Position entails research and advocacy on the effects in Antarctica of climate change, oil development, ozone depletion, overfishing, plastic pollution, and waste disposal. Salary: \$21,000. Send résumé and writing sample to: **Bruce Manheim, EDF, 1616 P Street, NW, Washington, DC 20036.**

POSITIONS OPEN

FACULTY POSITIONS KING ABDULAZIZ UNIVERSITY FACULTY OF METEOROLOGY, ENVIRONMENT AND ARID LAND AGRICULTURE JEDDAH, SAUDI ARABIA

Applications are being accepted by the Faculty of Meteorology, Environment and Arid Land Agriculture, King Abdulaziz University for the following three faculty positions:

1. **HORTICULTURAL SCIENTIST**
2. **FLORICULTURE SCIENTIST**
3. **ANIMAL BREEDING SCIENTIST**

Applicants should hold a Ph.D. in horticulture, floriculture, animal breeding, or a closely related field, and possess a proven record in teaching and research. Candidates should submit curriculum vitae, including a list of publications, statements of research interests and teaching experience, and three letters of reference to:

Dr. Dwayne A. Suter
Associate Dean
College of Agriculture
Texas A&M University
College Station, TX 77843

In addition to an attractive salary, King Abdulaziz University offers a generous housing and furniture allowance, end of contract gratuity, 60 days of paid summer leave each year, baggage allowance, educational allowance for school-age children, transportation allowance, and annual round-trip air fares.

Term of employment is for 1 year with opportunity for renewal.

Harvard University: The Department of Psychology invites inquiries from persons qualified for appointment to a **FULL PROFESSORSHIP** in the area of cognition, broadly construed to span cognitive psychology and cognitive science. Competence in computational modeling or cognitive neuroscience is highly desirable. Candidates should indicate their interest by writing to: **Brendan Maher, Chairman, Department of Psychology, Harvard University, Cambridge, MA 02138.** Curriculum vitae and the names of potential referees should be included. Applications from women and members of minority groups are especially welcome. The closing date for applying is 25 November 1987.

GEOLOGY: Full-time tenure-track position in geomorphology and glacial geology beginning August 1988. Ph.D. and strong quantitative orientation required. Duties involve teaching undergraduate courses and conducting research. Send curriculum vitae and letters of recommendation by 15 December 1987 to: **Professor George H. Springer, Geology Department, University of Dayton, Dayton, OH 45469.** Telephone: 513-229-2921. *Affirmative Action/Equal Opportunity Employer.*

JUNIOR AND SENIOR FACULTY POSITIONS ANIMAL VIROLOGY

The Department of Microbiology and Immunology invites applications for junior and senior level, tenure-track positions focusing on the molecular analysis of significant problems in Animal Virology. Senior candidates should have strong records of research accomplishment with sustained program growth and development. Junior candidates will be expected to develop high quality, independent research programs with long-term growth potential. Teaching responsibilities, which emphasize quality rather than quantity, include medical, dental, and graduate students. A large Center of Excellence grant has resulted in establishment of a Molecular Resource Center within the Department featuring state-of-the-art facilities for: oligonucleotide synthesis, peptide synthesis, hybridoma antibody production, amino acid analysis, protein/sequencing and flow cytometry. Funds for the initiation of research programs will be available and salaries will be highly competitive. Applications should consist of curriculum vitae, copies of several recent publications, a brief statement of future research goals, and three letters of reference to be sent to: **Dr. Terrance G. Cooper, Department of Microbiology and Immunology, University of Tennessee, Memphis, 858 Madison Avenue, Memphis, TN 38163.** Applications will be received until 15 October 1987 or until the positions are filled thereafter. *The University of Tennessee is an Affirmative Action/Equal Opportunity Employer.*

KUWAIT UNIVERSITY FACULTY OF SCIENCE

Kuwait University invites applications for the posts of Professors, Assistant Professors (Associate Professors) and Lecturers (Assistant Professors) for the academic year 1988/89 tenable September 1st, 1988 in the following disciplines:

- Mathematics Department** : Computer Science, Mathematical Modeling, Graph Theory and Combinatorics. The Department is especially interested in promising holders of Ph.D. degrees in all specialisations of Math and Computer Science.
- Physics Department** : (Lecturer or Asst. Professor) Laser and their applications (Experimental), Modern Optics (Experimental), Semiconductor Devices (Experimental), Material Science (Experimental).
- Biochemistry Department** : Professor or Asst. Prof. (Assoc. Prof.) for one year or two years only; Physical Biochemistry or Genetics or Enzymology.
- Zoology Department** : Professor or Asst. Prof. (Assoc. Prof.) Ecology of Desert animals other than Insects, Cell Biology, Endocrinology, Evolution and Population, Genetic, Neurophysiology, Principles of Taxonomy, Molecular Biology.
- Geology Department** : Structural and Engineering Geology, Marine Geology.

The language of instruction in the College of Science is English. All candidates must possess the Ph.D. at the time of application. Application forms and conditions of service can be obtained from:

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

Applications must be accompanied by non-returnable copies of academic credentials and representative publications. These must be sent directly to:

Dean, College of Science
Kuwait University
P.O. Box 5969
13060 Safat
KUWAIT

Applications must be received in Kuwait by November 30, 1987.

Manager Microbiological Services & Validation

Burroughs Wellcome Co., a leader in the research, development, and manufacture of pharmaceuticals seeks an individual with proven expertise in the management of microbiological and validation services within a Quality Assurance Department.

The individual we seek will assume the key position of Manager, Microbiological and Validation Services and will report directly to the Director of the Quality Assurance Division at our Greenville production facility. The primary responsibility of this position will be to coordinate and provide the microbiological and validation services necessary to ensure that high quality product standards continue to be developed and maintained for the U.S. operation. As a part of the duties, coordination with international activities and standards of Wellcome plc is required.

To qualify for this position, a Ph.D. in Microbiology or Biochemistry is required plus 7-10 years experience in Pharmaceutical QC/QA, research, or development and a minimum of 5-7 year's management experience above first line supervision in a Pharmaceutical Microbiological QA position.

Burroughs Wellcome offers some of the best benefits in the industry, salaries commensurate with ability, and a stimulating work environment. A full relocation package is also offered. To apply in confidence, submit your resume to: **Burroughs Wellcome Co., Employment Administrator, Dept. SC-3615, P.O. Box 1887, Greenville, NC 27835-1887.** Minorities and females are encouraged to apply. We are an equal opportunity employer.



Wellcome

REVIEWERS OF PHARMACOLOGY/TOXICOLOGY/ PHYSIOLOGY DATA

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POSITION DESCRIPTION: The reviewer serves as a member of a multidisciplinary scientific/medical team in one of the drug application review divisions in the Center for Drugs and Biologics, Food and Drug Administration, located in Rockville, Maryland. Responsibilities include evaluating non-clinical pharmacology and toxicology data submitted to the FDA to support safety of new drugs proposed for human investigation and marketing. Incumbents review and evaluate scientific data submissions with respect to content, quality, adequacy and projected human risk, and contribute to recommendations regarding further studies and the initiation and progress of clinical trials.

HIGHLY DESIRABLE: Ph.D. plus experience and publications in a drug-related aspect such as neuropharmacology, cardiovascular, renal or gastrointestinal pharmacology, anti-inflammatory, anti-cancer, anti-infective or antiviral drug actions, metabolism or endocrinology.

SALARY: Ranges
GS-12 \$32,567-\$42,341
GS-13 \$38,727-\$50,346
commission in the U.S. Public Health Service,
and commensurate pay scale, may also be possible.

POSITIONS AVAILABLE: Numerous positions within the Center for Drugs and Biologics in the Divisions of Neuropharmacological Drug Products, Division of Cardio-Renal Drug Products, Division of Gastrointestinal and Coagulation Drug Products, Division of Anti-Infective Drug Products, Division of Metabolism and Endocrine Drug Products and the Division of Oncology and Radiopharmaceutical Drug Products.

APPLICATIONS: Submit current curriculum vitae or U.S. Government application form (SF-171) to:
Food and Drug Administration
Division of Human Resources Management,
Room 4B44
5600 Fishers lane
Rockville, Md. 20857
Attention: Mrs. Sherry Preusch



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POSITIONS OPEN

IMMUNOLOGIST

Director of New Product Development: Doctoral degree plus at least 3 years of industrial experience in immunodiagnosics. Responsibilities will include assay standardization and scale-up, package inserts and SOPs and interaction with Production Unit. Excellent communication skills are necessary. Salary to \$50,000. Forward résumé and names of three references to: **Vice President, Research and Development, Cellular Products, Inc., 688 Main Street, Buffalo, NY 14202.** All replies are held confidential. *Cellular Products, Inc. is an Equal Opportunity Employer.*

Harvard University. The Department of Psychology is searching for **JUNIOR APPOINTEES** (initially for a 5-year term), beginning 1 July 1988 in the areas of animal behavior and developmental psychology. A special interest in psychological measurement and statistics would be desirable, though not essential. Applications should include a current curriculum vitae, and applicants should ask at least three individuals familiar with their work to write directly to: **Brendan Maher, Chairman, Department of Psychology, Harvard University, 33 Kirkland Street, Cambridge, MA 02138.** Applications received after 25 November 1987 may not be considered. *Applications from women and members of minority groups are especially welcome.*

LIPOPROTEIN BIOCHEMIST

Applications are invited for appointment as Section Head of Lipoprotein Biochemistry in a newly-established Cardiovascular Research Center whose focus is on a multidisciplinary approach to mechanisms initiating and potentiating atherosclerosis. Position entails establishment of a research group in the area of lipoprotein biochemistry and metabolism which will interface with other scientists of varied expertise. Applicants should be established in the field, with demonstrated ability to obtain major funding and actively collaborate with other disciplines. The Center will be housed in a new research building scheduled for completion in the summer of 1988. Start-up funds are available, and salary and fringe benefits are attractive. Please send a statement of research interests and complete curriculum vitae to **Box 124, SCIENCE.**

Position available immediately for a **MOLECULAR BIOLOGIST** to be appointed as a research assistant professor or research associate in anatomy and cell biology at the University of Virginia Medical School. An outstanding individual will be selected to join a team studying the molecular biology of human spermatogenesis, toward the goal of contraceptive vaccine development. Candidates should have a Ph.D. or M.D. degree and a strong record of publications involving recombinant DNA techniques. Send curriculum vitae and names of three references to: **Dr. John C. Herr, Department of Anatomy and Cell Biology, Box 439, Medical Center, University of Virginia, Charlottesville, VA 22908.**

MOLECULAR CELL BIOLOGIST UNIVERSITY OF PENNSYLVANIA

A tenure-track position is available at a junior or senior level for an individual with an active research program using modern approaches to address fundamental problems of cell biology. The individual will join a faculty with interests in cell-cell interactions, membrane functions, cell motility, and developmental biology. Teaching responsibilities will be at both the undergraduate and graduate levels.

Please send curriculum vitae and three letters of reference to: **Dr. Rocky S. Tuan, Chairman, Cell Biology Search Committee, Biology Department, University of Pennsylvania, Philadelphia, PA 19104-6018** by 15 October 1987. *The University of Pennsylvania is an Affirmative Action/Equal Opportunity Employer.*

Ph.D. MICROBIOLOGIST/BIOCHEMIST with at least 2 years of postdoctoral experience. Research background in intermediary metabolism and/or macromolecular synthesis required. Expertise in the isolation and assay of microbial enzymes is desired. The successful candidate will be responsible for research leading to the development of new assay systems for the discovery of novel antibiotics. Please send curriculum vitae to: **Maureen Quigley, Professional Employment Representative, American Cyanamid Company, Medical Research Division, Lederle Laboratories, Pearl River, NY 10965.** *An Equal Opportunity Employer M/F.*

POSITIONS OPEN

MOLECULAR BIOLOGY

Applications are invited for appointment as Section Head of Molecular Biology in a newly-established Cardiovascular Research Center whose focus is on a multidisciplinary approach to mechanisms initiating and potentiating atherosclerosis. Position entails establishment of a research group in the molecular biology of vascular cells or lipoproteins which will interface with other scientists of varied expertise. Applicants should be established in the field, with demonstrated ability to obtain major funding and actively collaborate with other disciplines. The Center will be housed in a new research building scheduled for completion in the summer of 1988. Start-up funds are available, and salary and fringe benefits are attractive. Please send a statement of research interests and complete curriculum vitae to **Box 123, SCIENCE.**

NEUROPHYSIOLOGY POSITION available at the postdoctoral, research associate, or instructor level. The Neurobiology Laboratory at Cornell University Medical College is seeking someone trained in extracellular unit recording techniques, preferably but not necessarily in awake animals, to participate in studies of interactions between sensory and limbic neural systems and the role of these systems in emotional processing, visceral regulation, and learning. Persons with training in sensory neurophysiology are especially encouraged to apply. Working knowledge of computer applications and electronics desirable. Salary commensurate with experience. Send résumé and the names, addresses, and telephone numbers of three references to: **Drs. J. E. LeDoux and D. J. Reis, Laboratory of Neurobiology, Cornell University Medical College, 411 East 69th Street, New York, NY 10021.**

PLANT MOLECULAR BIOLOGY

The Department of Botany, The University of Texas at Austin, is seeking applicants for a full-time **ASSISTANT PROFESSORSHIP** to direct research, develop a graduate program and teach in the area of plant molecular biology. Applicants should possess demonstrated capabilities for research in some molecular aspect of plant biology involving the use of recombinant DNA technology. Send curriculum vitae, statement of future research goals, and names of three references by 2 November 1987 to: **Dr. Guy Thompson, Chairman, Search Committee, Department of Botany, The University of Texas at Austin, Austin, TX 78713.**

POSTDOCTORAL FELLOW OR RESEARCH ASSOCIATE to investigate axonal growth in the adult mammalian CNS. Training and experience in biochemical, anatomical, or in vitro methods desirable. Send curriculum vitae and letters of reference to: **Dr. K. A. Crutcher, Department of Neurosurgery, University of Cincinnati Medical Center, 231 Bethesda Avenue, Cincinnati, OH 45267-0515.** *The University of Cincinnati is an Affirmative Action/Equal Employment Opportunity Employer.*

POSTDOCTORAL POSITION available immediately for NIH-funded study on the structure and function of the parasitophorous vacuole membrane of *Plasmodium falciparum*. Other ongoing research includes studies on: pH and Ca²⁺ homeostasis in *Plasmodium* and mechanisms of parasite invasion of erythrocytes using digitized video-intensified fluorescence microscopy; peptide hormones, secondary messengers, protein kinases of *Plasmodium*; and immunological aspects of malarial infections. Send curriculum vitae with names of three references to: **Dr. Ross B. Mikkelsen, Radiobiology Division, New England Medical Center, Boston, MA 02111.**

POSTDOCTORAL POSITION available for a recent graduate with a Ph.D. in an area of oculomotor vision research. Candidates with a background in motion perception who want experience in an established human oculomotor research laboratory are encouraged to apply. This is a Stanford University position located at the Santa Clara Valley Medical Center, where the graduate would work with an M.D. neurologist and Ph.D. biomedical engineer. Send résumé and three letters of recommendation to: **John R. Hotson, M.D., Department of Neurology, Santa Clara Valley Medical Center, 751 South Bascom Avenue, San Jose, CA 95128.** *Stanford University is an Equal Opportunity Employer.*

POSITIONS OPEN

POSTDOCTORAL POSITION (2 to 5 years) available immediately to study neuropeptide signal transduction. Research will include receptor-hormone interaction, purification of receptor-effector components and regulation. Candidates should have a Ph.D. in biochemistry or molecular biology, with primary experience in membrane protein chemistry and receptor purification. Additional experience in recombinant DNA techniques would be advantageous. Send curriculum vitae and names of three references to: **Dr. Felix Strumwasser, Marine Biological Laboratory, Woods Hole, MA 02543.** *Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITION

Postdoctoral position available immediately in molecular genetics. This position involves the study of gene expression in yeast. Experience in the characterization and manipulation of cloned genes is desirable. Apply with curriculum vitae, research interests, and three letters of reference to: **Dr. Julius Marmur, Department of Biochemistry, Albert Einstein College of Medicine, 1300 Morris Park Avenue, Bronx, NY 10461.** *An Equal Opportunity Employer.*

POSTDOCTORAL POSITION: The Division of Pulmonary Medicine at Long Island Jewish Medical Center is seeking a Ph.D. to direct the Pulmonary Research Laboratory and to pursue independent research. Potential collaborative areas of interest include endothelial cell injury, erythropoietin physiology, and surfactant secretion. Continuous funding available through the Nina Weissman Foundation. Interested applicants should send their curriculum vitae to: **Harry Steinberg, M.D., Division of Pulmonary and Critical Care Medicine, Long Island Jewish Medical Center, New Hyde Park, NY 11042.** *Equal Opportunity Employer.*

A **POSTDOCTORAL POSITION** is available immediately for biochemist, biophysicist or molecular biologist to study the role of metal in the regulation and mechanism of gene expression in both prokaryotes and eukaryotes, particularly in RNA polymerases and metalloproteins. Experience in metalloproteins is helpful. Send curriculum vitae and three letters of recommendation to: **Professor Felicia Wu, Department of Pharmacology, H.S.C., SUNY Stony Brook, Stony Brook, NY 11794-8651.** *SUNY Stony Brook is an Affirmative Action/Equal Opportunity Educator and Employer. AK#192-A.*

POSTDOCTORAL POSITION available November 1987 for current clamp and voltage clamp studies of locus coeruleus neurons in a brain slice preparation. Experience with intracellular recording is required. Send curriculum vitae, a description of research experience and interests, and names of three references to: **Dr. S. A. Shefner, Department of Physiology and Biophysics, University of Illinois College of Medicine, Box 6998, Chicago, IL 60680.** *An Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION in cellular toxicology available immediately to study the metabolism and toxicity of xenobiotics in isolated hepatocyte systems and in fungal cell cultures. A 3-year NIH project will evaluate the efficacy of fungal cell systems in identifying and predicting the toxicity of xenobiotics by comparing them to mammalian hepatocytes. A strong background in drug metabolism and toxicology is required. Knowledge of cell culture techniques is desirable. Send curriculum vitae and the names of three references to: **Daniel Acosta, College of Pharmacy, The University of Texas, Austin, TX 78712.**

POSTDOCTORAL POSITION available immediately to investigate mechanisms regulating collagen gene expression in transformation, tumor growth, and differentiation. Cell culture, protein chemistry, molecular biology, and recombinant DNA techniques are employed. Applicant should have training in biochemistry or molecular biology. Experience with recombinant DNA techniques desirable. Applicants must be U.S. citizens. Salary range \$22,450 to \$27,000. Submit résumé and names of three references to: **Dr. Barbara Smith, Collagen Research Laboratory, Veterans Administration Outpatient Clinic, Boston, MA 02108.** *An Equal Opportunity/Affirmative Action Employer.*

QUEEN'S NATIONAL SCHOLARS (Faculty Appointments)

QUEEN'S UNIVERSITY AT KINGSTON invites applications from outstanding scholars for faculty appointments in the life, physical and social sciences, the humanities, business, education, engineering, law, medicine, nursing, rehabilitation therapy, and industrial relations, public administration and urban and regional planning. Preference will be given to scholars in the early- or mid-career stages.

These appointments are to enrich teaching and research in newly developing fields of knowledge as well as traditional disciplines. Another objective is to provide an opportunity to improve the proportion of women on faculty.

Under a special "Queen's National Scholar" program these appointments will be either bridging appointments to regular tenure track positions or special shorter term appointments. THE MAIN CRITERION OF INTEREST TO THE SELECTION COMMITTEE IS ACADEMIC EXCELLENCE REGARDLESS OF OTHER CONSIDERATIONS. In accordance with Canadian Immigration requirements this advertisement is directed to Canadian citizens and permanent residents.

Each application should include a curriculum vitae and a brief statement of current and prospective research interests (if not included in the vitae). Candidates should arrange to have letters from three referees sent directly to the address below. The deadline for the receipt of completed applications, including letters of references, is *October 16, 1987*.

Applications and letters of reference should be sent to: The Head(s) of the department(s) of the applicant's field(s) of study, Queen's University, Kingston, Canada, K7L 3N6.

BIOCHEMIST Ph.D.

Merck Sharp & Dohme Research Laboratories is currently seeking a Ph.D. Biochemist to join its Department of Biological Research. The selected candidate will join a multi-disciplinary group of molecular and cellular biologists involved in the research of growth factors.

A Ph.D. in Biochemistry or the equivalent with some experience in protein purification is required.

Excellent salary and benefits programs accompany this position at our modern research facility located 25 miles northwest of Philadelphia.

Please send resume with salary requirement to:

**Manager,
Research Personnel, W42-2**

**Merck Sharp & Dohme
Research Laboratories**

West Point, PA 19486

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Merck & Co., Inc.

RESEARCH SCIENTIST

The Ames Division of Miles Laboratories, Inc., a leader in Medical Diagnostics, is seeking a Research Scientist.

We are seeking a scientist with a Ph.D. or the equivalent, in Biochemistry with a strong background in protein chemistry and enzymology to work on the development of non-isotopic immunoassay technologies. The successful candidate should have a record of accomplishment demonstrating a capacity for creativity. The individual must have strong laboratory skills and be willing to work at the bench. Strong verbal and written communication skills are essential.

Located in Elkhart, Indiana, we offer varied recreational and educational facilities as well as convenient accessibility to the Chicago area. Starting salary commensurate with experience, plus an excellent benefits program. Relocation benefits paid by the company.

Please send complete resume in confidence to:

**Linda Heiland
Sr. Personnel Representative
Department 254**



**Miles Laboratories, Inc
P.O. BOX 40
Elkhart, IN 46515**

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STAFF ASTRONOMER/MISSION DIRECTOR Kuiper Airborne Observatory

Responsibilities include: (1) as Staff Astronomer, scientific coordination and liaison between the facility staff and the User community; (2) as a Mission Manager, involvement in all phases of operations for a flight series and, on regularly assigned flights, director of all mission operations except those pertaining directly to aircraft operations.

Basic qualifications include: (1) bachelor's degree, or higher, in appropriate fields of physical sciences, mathematics, or engineering; and (2) experience in the conduct of infrared astronomical research.

Desirable additional qualifications include: (1) knowledge of the design and/or scientific application of telescopes and their associated systems; (2) advanced degree, preferably a doctorate in astronomy; (3) ability to cooperate and work effectively and tactfully as a team member.

Position requires active participation in frequent night flights in pressurized aircraft cabins and successful completion of an aerospace physiological training course. Applicant must be able to pass an FAA Class II physical examination.

Salary \$32,673 - \$45,763, commensurate with experience and education. For more information, contact Louis C. Haughney or Carolyn A. Donlin, (415) 694-5336 (FTS 464-5336).

Send letter or resume by October 31, 1987 to:

National Aeronautics and Space Administration
Ames Research Center
ATTN: LCH/CAD, MS 211-12
Moffett Field, CA 94035

NASA Ames Research Center

SENIOR RESEARCH CHEMISTS

The Animal Drug Metabolism Department of Merck, Sharp & Dohme Research Laboratories is looking for two Senior Research Chemists. The positions involve the study of in vitro metabolism, as well as the absorption, distribution, metabolism, and excretion of drugs and metabolites in vivo. Both positions require a Ph.D. in medicinal chemistry, organic chemistry, biochemistry, or pharmacology with at least two years of postdoctoral experience. The candidate should have a broad knowledge of the theory of drug metabolism with demonstrated strengths in modern bioanalytical techniques, including HPLC and radioassay. Experience in the isolation of drugs and metabolites from biological samples and knowledge of metabolic pathways, computer data analysis, NMR, and MS are highly desirable.

Merck Sharp & Dohme Research Laboratories is located in Rahway, New Jersey approximately 25 miles from New York City. Our salaries, benefits, and growth potential are excellent.

Interested candidates should submit their resume with the names of three references and salary requirements to: **Ms. Jacqueline A. Eiermann, Merck & Co., Inc., P.O. Box 2000, Rahway, New Jersey 07065.**

Equal Opportunity Employer.



Merck & Co., Inc.

CHAIRPERSON DEPARTMENT OF PHARMACOLOGY AND TOXICOLOGY THE PHILADELPHIA COLLEGE OF PHARMACY & SCIENCE

Applications and nominations are invited for the position of Chairperson, Department of Pharmacology and Toxicology, THE PHILADELPHIA COLLEGE OF PHARMACY & SCIENCE. The college offers Baccalaureate degrees in Bio-chemistry, Biology, Chemistry, Medical Technology, Micro-biology, Pharmacy and Toxicology; a M. in Physical Therapy; and the M.S. and Ph.D. degrees in Medicinal Chemistry, Pharmaceutics, Pharmacology and Toxicology. The department currently has 5 faculty members, 3 open faculty positions, 12 FULL TIME graduate students, and is housed in a modern, 3-story teaching/research facility with 8 well-equipped research laboratories and an AAALAC accredited animal facility.

Candidates must possess a Doctoral degree, a proven record of funded research in Pharmacology and/or Toxicology, strong administrative ability, a commitment to undergraduate and graduate education in the pharmaceutical sciences and to developing a strong departmental research program in Pharmacology and Toxicology. The appointee will be expected to continue his/her research, and to participate in the teaching program.

Applications should include a statement of interest and curriculum vitae. Inquiries and nominations are welcome. Applications should be forwarded to:

**The Pharmacology/Toxicology Chair Search Committee,
c/o MS. KRISTIN J. BURNS
PHILADELPHIA COLLEGE OF
PHARMACY & SCIENCE**

Woodland Ave. & 43rd Street, Philadelphia, PA 19104
by November 1, 1987. Equal Opportunity/Affirmative Action Employer

Research Triangle Universities Plant Molecular Biology

Graduate and Postdoctoral Fellowships

Duke University, North Carolina State University, and the University of North Carolina at Chapel Hill formed a Consortium in 1983 to advance studies in molecular biology of green plants and other photosynthetic organisms. With support from RJR Nabisco, CIBA-GEIGY and the North Carolina Biotechnology Center, the Consortium will provide a limited number of graduate and postdoctoral fellowships in 1988 for study and research in plant molecular biology at the three Triangle universities. Candidates must be U.S. citizens. Each fellow must be based in a plant molecular biology laboratory at one of the universities, but will participate in activities involving faculty and students at all three institutions. The goal of the Consortium is to enhance the community of plant molecular biologists among universities and participating companies.

The graduate student stipend is \$10,000 plus tuition, with an allowance for supplies and travel. The award is renewable for an additional two years. The postdoctoral stipend is \$21,500, subject to university policies, with an allowance for supplies and travel. The postdoctoral award is renewable for an additional year.

Predocdoctoral candidates must apply directly to the departments and graduate schools of their choice. In addition, applicants must send copies of each application directly to the North Carolina Biotechnology Center, including 1) a brief statement of research and career interests, 2) copies of all transcripts and 3) copies of GRE scores. Applicants should also arrange to have copies of three letters of recommendation sent directly to the North Carolina Biotechnology Center. All materials are due by February 1. Acceptance at one or more of the three universities is a prerequisite of the Fellowship Program.

Postdoctoral applications must be submitted by February 1 and should follow the format of NIH postdoctoral applications, complete with detailed research plan, and three letters of recommendation. Postdoctoral candidates must identify a suitable faculty sponsor at one of the three universities and develop a mutually acceptable research program with that sponsor. The applicant is responsible for the sponsor's submission of a statement to the North Carolina Biotechnology Center of what the sponsor will commit to the program.

All materials for both predocdoctoral and postdoctoral applications must be received at the North Carolina Biotechnology Center by February 1, 1987. Award announcements will be made by March 15, 1987.



North Carolina Biotechnology Center
P.O. Box 13547
Research Triangle Park, NC 27709-3547

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EXECUTIVE DIRECTOR

Oak Ridge Associated Universities

The Board of Directors of the Oak Ridge Associated Universities invites nominations and applications for the position of Executive Director. Oak Ridge Associated Universities is a private not-for-profit association of 49 colleges and universities with a staff of more than 500 and a current operating budget of approximately \$35 million with offices in Oak Ridge, TN, and Washington, DC. It conducts research, educational and information programs in the areas of energy, health, and the environment for the U.S. Department of Energy (DOE), other private and governmental organizations, ORAU member institutions, and other colleges and universities. ORAU is a management and operating contractor for DOE. Activities include the administration of pre- and post-doctoral fellowships, basic and applied research in biomedicine and physics, policy studies, and management of major research facilities.

Responsibilities of the Executive Director include: Direction of all programs, facilities, and personnel; provision of strong leadership in pursuing new initiatives and new directions for ORAU; overall responsibility for cooperative activities and relationships with member institutions; representation of ORAU to federal agencies, corporations, foundations, universities, and other organizations; and strategic planning.

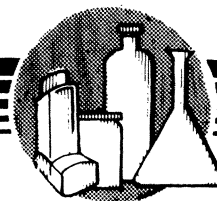
It is desirable that candidates for the position have the following qualifications: Earned doctorate in science, engineering, medicine or a related field; experience as a faculty member or familiarity with university administration, governance, etc.; research experience; familiarity with government agencies, funding procedures, and proposal preparation; management experience, including fiscal, personnel, and program/project responsibility; familiarity with private foundations and other 501(c)3 institutions; strong interpersonal skills; and ability to communicate well orally and in writing.

The position will be available on or before July 1, 1988. The Search Committee will begin its review of applications November 2, 1987. Salary and starting date are negotiable. Applications should include a letter stating an interest in the position, a complete resume, and names and addresses of at least three references. Applications will be considered confidential.

Applications and nominations should be sent to:

Dr. Paul F. Parks
Vice President for Research
202 Samford Hall
Auburn University, AL 36849

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Qualified candidate must possess previous experience with viral infections in animals and the evaluation of anti-viral compounds. Familiarity with retroviruses and/or molecular biology is preferred, as well as previous experience in the pharmaceutical industry.

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Dept. 87-062E-SC

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No Private Agency Referrals, Please*

Glaxo Inc.

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POSITIONS OPEN

POSTDOCTORAL POSITION available 1 October 1987 to study *Histoplasma* antigen purification and characterization. Experience with immunoassays, tissue culture, and antigen isolation and characterization desirable. Salary \$21,000 per year. Send curriculum vitae, summary of research experience, and three letters of reference to: **L. Joseph Wheat, M.D., Wishard Memorial Hospital, 1001 West 10th Street, Indianapolis, IN 46202.**

POSTDOCTORAL POSITION CANCER RESEARCH INSTITUTE UNIVERSITY OF CALIFORNIA SAN FRANCISCO, CA

An immediate opening for a recent Ph.D. in biochemistry or immunology with expertise in 2-D gel electrophoresis, computer-based analysis of gels, and molecular biological techniques to perform research on the molecular mechanisms of action of biological response modifiers (interferons, interleukins, and tumor necrosis factor) in normal and malignant cells. Appointment for at least 2 years.

Please contact:

Dr. L. B. Epstein
Cancer Research Institute
University of California
San Francisco, CA 94143
Telephone: 415-476-8972

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POSTDOCTORAL POSITION available immediately to study the organelle machinery involved with targeting of precursor proteins to mitochondria. Project involves isolation of mutants of *Saccharomyces* affecting mitochondrial import, gene cloning, and gene product characterization using biochemical and cell biologic techniques. Contact: **Dr. Arthur Horwich, Yale School of Medicine, Department of Human Genetics, 333 Cedar Street, New Haven, CT 06510. Yale University is an Equal Opportunity Employer.**

POSTDOCTORAL POSITIONS IN BIOTECHNOLOGY. Structure, function, and regulation of genes in animals, fungi, bacteria and plants. Send curriculum vitae and three references to: **P. E. Kolattukudy, Biotechnology Center, Rightmire Hall, The Ohio State University, Columbus, OH 43210. Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION—ENZYMOLOGY. The research is aimed at identifying, isolating, and characterizing lignin-degrading enzymes in a filamentous fungus. Work will be in well-equipped laboratories at U.S. Forest Products Laboratory/University of Wisconsin. Available immediately for 1 to 2 years. Salary: \$26,000 per year. U.S. citizens only. *An Equal Opportunity Employer.* Reply: **Dr. T. K. Kirk, Forest Products Laboratory, One Gifford Pinchot Drive, Madison, WI 53705-2398. Telephone: 608-264-5887 or 5866.**

POSTDOCTORAL POSITIONS IN MOLECULAR NEUROBIOLOGY to study on NIH grants (i) the mechanism by which a newly identified gene family regulates axon growth and nerve circuitry formation, (ii) the relationship between gene expression and nerve regeneration, or (iii) the pathogenesis of diabetic neuropathy. Submit curriculum vitae and names of three references to: **Dr. Douglas N. Ishii, Physiology Department, Colorado State University (CSU), Fort Collins, CO 80523. CSU is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL AND RESEARCH ASSOCIATE POSITIONS IN PRIMATE REPRODUCTIVE ENDOCRINOLOGY

Available immediately to Ph.D. to study peptide and steroid hormone production in vivo and in vitro at the cellular/subcellular/molecular levels by maternal-fetal-placental unit during baboon pregnancy. Experience with primates is not necessary. Background in reproductive endocrinology and U.S. citizenship essential. Send curriculum vitae to:

Eugene D. Albrecht, Ph.D.
Department of Obstetrics and Gynecology
University of Maryland School of Medicine
655 West Baltimore Street
Baltimore, MD 21201

POSITIONS OPEN

POSTDOCTORAL POSITIONS (TWO)—to join research team studying molecular regulation of glycoprotein biosynthesis. Program includes analysis of tissue specific gene expression, construction of recombinant mammalian cell lines, preparation of monoclonal antibodies, and structural analysis of complex glycoconjugates. Candidates should have experience in one or more of these areas. Competitive salaries and an academic appointment possible depending on qualifications. Please send curriculum vitae and the names of three references to: **Dr. Lawrence A. Tabak, Departments of Dental Research and Biochemistry, Box 611, University of Rochester, Rochester, NY 14642. Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL/RESEARCH ASSOCIATE position available immediately to study biochemical and molecular aspects of cAMP-dependent protein kinases in brain and cultured endocrine cells. Candidates should have a recent Ph.D. in biochemistry or molecular biology. Send curriculum vitae and three letters of reference to: **Dr. Jack Erlichman, Department of Medicine/Biochemistry, Albert Einstein College of Medicine, 1300 Morris Park Avenue, Bronx, NY 10461.**

POSTDOCTORAL RESEARCH ASSOCIATE, instrumentation and programming for plant effects research. Position is available immediately. Studies include effects of application of carbon dioxide, ozone, and other pollutants to plants in open air settings. Individual selected will be responsible for analysis of atmospheric gases, database programming and analysis, and may contribute to a multi-institutional effort in systems modeling. Position requires a high degree of skill in BASIC and FORTRAN programming, and analytical instrumentation. Development of new research proposals will be encouraged. Send curriculum vitae, that includes publication list, and names of three references to: **Dr. George R. Hendrey, Department of Applied Science, Terrestrial and Aquatic Ecology Division, Building 318, Brookhaven National Laboratory, Associated Universities, Inc., Upton, Long Island, NY 11973. Equal Opportunity Employer M/F.**

POSTDOCTORAL RESEARCH ASSOCIATE, trained in molecular virology. Position available December 1987, for a recent doctorate to study the human adenovirus endoprotease and to design and construct inhibitors of this enzyme. This program will be directed jointly by **Dr. Carl W. Anderson and Dr. Walter F. Mangel of the Biology Department at Brookhaven National Laboratory.** Its goal is to evaluate the use of proteinase inhibitors as antiviral agents. Research involves cloning, expression and characterization of the viral endoprotease precursor, and the design of peptide inhibitors of this enzyme. Prior experience with recombinant DNA techniques is desirable.

Applicants should submit curriculum vitae, statement of research interests and names of three references to: **Dr. Carl W. Anderson, Biology Department, Brookhaven National Laboratory, Associated Universities, Inc., Upton, Long Island, NY 11973. Equal Opportunity Employer M/F.**

POSTDOCTORAL RESEARCH ASSOCIATE—Position available for an electrophysiologist to characterize the properties of central axons which have regenerated along peripheral nerve implants. Preference given to applicants experienced in spinal cord physiology and/or tract-tracing, and histological techniques. Please send curriculum vitae with names of three references to: **Dr. Julia K. Terzis, Microsurgical Research Center, Eastern Virginia Medical School, 700 Olney Road, Norfolk, VA 23507.**

POSTDOCTORAL RESEARCH ASSOCIATE PROTEIN BIOCHEMIST MOLECULAR BIOLOGIST

A position is available for an individual well-trained in protein purification and characterization techniques to join a group which is actively working on the cell biology of the male reproductive system. An M.D. or Ph.D. degree is required, and previous postdoctoral experience is preferred. The successful candidate will be expected to conduct a vigorous research program in cell and molecular aspects of reproduction. Interested candidates should forward résumés to: **Dr. Martin Dym, Chairman, Department of Anatomy and Cell Biology, Georgetown University, Washington, DC 20007.**

An Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

PRESIDENT, HARVEY MUDD COLLEGE, Claremont, California. Nominations and expressions of interest are invited for the position of president. Harvey Mudd, one of six private, independent institutions comprising The Claremont Colleges, offers the Bachelor of Science degree in chemistry, engineering, mathematics, and physics, and a 5-year Master of Engineering. The curriculum's primary purpose is the education of highly competent engineers, scientists, and mathematicians with sufficient background in the humanities and social sciences to fit them for leadership in their fields with a clear understanding of the impact of their work on the rest of society. The college is residential and has an elite student body of about 550 (20% women). Candidates should submit a résumé and the names, addresses, and telephone numbers of five references. The new president will assume the duties of the office on 1 July 1988. Nominations and expressions of interest should be submitted to: **Mr. Trude C. Taylor, Chair, Presidential Search Committee, Harvey Mudd College, Claremont, CA 91711. Harvey Mudd College is an Equal Opportunity Employer.**

JOHN N. COUCH PROFESSORSHIP IN PLANT BIOLOGY

The Department of Biology, University of North Carolina at Chapel Hill is seeking a distinguished scholar to fill an endowed chair to plant biology to begin as early as July 1988. Individuals with established reputations and strong ongoing research programs are encouraged to apply. Although all areas of plant biology are appropriate, preference will be given to individuals who are utilizing state-of-the-art techniques in addressing problems in plant development or physiology. The successful candidate will be expected to interact with a strong program in plant organismal biology and with an expanding program in plant molecular biology. Letters of inquiry as well as nominations will be held in the strictest possible confidence. For further information please write to: **J. C. Lucchesi, Chairman, Search Committee, Department of Biology, Coker 010A, University of North Carolina, Chapel Hill, NC 27514 or call: 919-962-1332. The University of North Carolina is an Equal Opportunity/Affirmative Action Employer.**

RADIATION BIOLOGY FACULTY

The Department of Radiation Oncology at the University of Michigan Medical School seeks a senior radiobiologist to direct the Department's Basic Science Research efforts. This newly created faculty position will be responsible for supervising the activities of other faculty and postdoctorate fellows as well as developing an independent laboratory. The laboratory will soon move into 14,000 square feet of newly constructed space, and is currently staffed with three Ph.D. investigators and 14 support personnel. The University of Michigan has recently created a Cancer Center with 190 investigators who receive over \$14 million in annual direct funding support. The selected applicants will have major interactions and collaborations with Cancer Center members. Applicants should possess an M.D. and/or Ph.D. and have a proven track record of successful independent funded research in the field of radiation biology with academic credentials necessary to be appointed at the tenured associate, a full professor level. Please form a letter of interest with curriculum vitae to: **Allen S. Lichter, M.D., Professor and Chairman, Department of Radiation Oncology, University of Michigan Medical Center, 1500 East Medical Center Drive, UH-B2C490/0010, Ann Arbor, MI 48109-0010. The University of Michigan is an Equal Opportunity/Affirmative Action Employer.**

RESEARCH ASSISTANT PROFESSOR in the departments of ophthalmology and anatomy. Position for a candidate investigating retinal pathophysiology, ultrastructure, and clinical correlates. Unique medical center research facilities include a National Biomedical Research Technology Resource for intermediate voltage electron microscopy (IVEM), which provides full support for studies involving IVEM, TEM, and SEM. Applicant must have a recognized and competitive research program. Start-up salary and research supplementation is available. Send curriculum vitae and three letters of reference to: **W. Keith O'Steen, Ph.D., Professor and Chairman, Department of Anatomy, Bowman Gray School of Medicine of Wake Forest University, Winston-Salem, NC 27103. Affirmative Action/Equal Opportunity Employer.**

BIOCHEMICAL PHARMACOLOGIST

The Merrell Dow Research Institute has immediate openings in Project Administration for MS/Ph.D. level individuals. Candidates should have a strong laboratory background in biochemical pharmacology, preferably expertise in enzyme kinetics and enzymatic mechanisms. Additional experience in conduct of clinical trials or drug regulatory affairs is desirable. Responsibilities include preparation of research reports, clinical investigators brochures and other regulatory summary documents including IND's and NDA's. Minimum requirements include 3-5 years experience, preferably industrial, and demonstrated communication skills, both written and verbal.

Merrell Dow Research Institute is a subsidiary of Dow Chemical Company and offers excellent compensation, comprehensive benefits and relocation assistance. If you are interested and would like to work for a rapidly growing research institute, send your curriculum vitae, salary requirements and the names of three references to:

Merrell Dow

**Job Code JKW
Personnel Services Manager**

MERRELL DOW RESEARCH INSTITUTE

2110 East Galbraith Road
Cincinnati, OH 45215

*U.S. Citizenship or
Permanent Visa Required
Equal Opportunity Employer M/F/H/V*

Director, Byrd Polar Research Center The Ohio State University

The Ohio State University invites applications and nominations for the position of Director of the University's interdisciplinary Byrd Polar Research Center. The Center was formerly known as the Institute of Polar Studies. The candidate should have an outstanding research record in an area such as physical, biological, earth, atmospheric, oceanographic, or engineering sciences, as evidenced by publications, receipts of research grants, and activities in national and international scientific organizations. The candidate should also have demonstrated administrative experience, ability to work effectively with academic and administrative personnel, and a strong interest in polar research.

The Director will provide leadership for and will coordinate the development of interdisciplinary programs in polar research, and will draw on resources of and be involved with existing programs in the Colleges of Agriculture, Biological Sciences, Mathematical and Physical Sciences, Engineering, Medicine, and Social and Behavioral Sciences.

The Director, who reports to the Vice President for Research and Graduate Studies, will provide active leadership in promotion, direction, and support of research activities of the Center. The principal mission of the Center, as reflected in its substantial 25-year history of activity, remains polar research. Newer areas of interest are research information, including archives of polar researchers such as Richard E. Byrd, and popular education about polar and alpine research, including museum displays.

The position is available July 1, 1988. Applications and nominations will be considered through December 31, 1987. For more information, write or call 614-292-3082. The Ohio State University is an Affirmative Action/Equal Opportunity Employer. Nominations and applications should be sent to:

Dr. Emanuel D. Rudolph
Chairman, Search Committee for Director
of the Byrd Polar Research Center
Office of Research and Graduate Studies
190 North Oval Mall
Columbus, OH 43210
U.S.A.

Biotechnology Research and Development

Pandex, a division of Baxter Healthcare Corporation, is developing state of the art products for medical diagnostics.

We are expanding our R&D group and offer unique opportunities for creative Ph.D. level Scientists interested in positions that offer challenging opportunities for professional career growth.

We are seeking the following key individuals:

Nucleic Acid Chemist - Ph.D. with 0-3 years postdoctoral experience in DNA/RNA synthesis.

Molecular Biologist - Ph.D. with 2-3 years postdoctoral experience in DNA cloning and synthesis of DNA probes.

Assay Development Scientists - Ph.D. with 3-5 years postdoctoral or industrial experience in immunology, virology or microbiology with knowledge of immunoassay techniques.

Virologist - Ph.D. with 0-3 years postdoctoral experience or equivalent in retrovirology.

Microbiologist - Ph.D. with 0-3 years postdoctoral experience in the area of STD's.

As a division of a multi-billion dollar leader in the healthcare industry with research facilities located 30 miles north of Chicago, we offer a competitive starting salary and an excellent benefits program.

If you would like to be considered, please send your resume in confidence to: Anne McNicholl, Personnel Director, Baxter Healthcare Corporation, Pandex Division, 909 Orchard Street, Mundelein, IL 60060. We are an equal opportunity employer.

Pandex Division

Baxter

**NATIONAL INSTITUTES OF HEALTH
NATIONAL INSTITUTE OF GENERAL
MEDICAL SCIENCES
GENETICS PROGRAM BRANCH**

Director, Genetics Program Branch

This is a civil service position in the Senior Executive Service (SES) with a salary range from \$64,700 to \$73,400 (Physicians may be eligible for a Physicians' Comparability Allowance up to \$10,000 per year)

The Director, Genetics Program Branch, has overall responsibility for planning, organizing and administering a large (about \$187 million/year) program of grants, contracts, and both individual and institutional fellowship awards, designed to foster and support biomedical research and research training in the fields of genetics and related molecular biology.

Position information and qualifications requirements may be obtained by contacting:

**Howard R. Chernoff, Personnel Officer
National Institute of General Medical Sciences
5333 Westbard Avenue
Westwood Building, Room 9A-13
Bethesda, MD 20892
(301) 496-7161**

Applications (Application for Federal Employment/SF-171, CV, and Bibliography) must be submitted to above address and postmarked not later than October 31, 1987. U.S. citizenship is required.

An Equal Opportunity Employer

Postdoctoral Scientist Immunopharmacology

The Departments of Immunology and Molecular Pharmacology at Smith Kline & French Laboratories, located near Valley Forge, PA, are seeking a Postdoctoral Scientist to join a multidisciplinary team studying the cellular and molecular pharmacology of suppressor cell induction in an attempt to design novel therapeutic strategies for immunoregulation. The successful candidate will use a variety of *in vitro* and *in vivo* techniques to identify and characterize suppressor cell populations resulting from pharmacologic induction as well as the cellular and molecular mechanisms underlying these events.

We consider postdoctoral studies to be of major importance in an individual's career and encourage publication of findings in leading journals and full interaction with the scientific community. Our postdoctoral appointments are normally for two years duration.

Candidates are required to have:

- a Ph.D. in Immunology or Cellular Biology with 0-2 years postdoctoral experience.
- experience in *in vitro* and *in vivo* models of immunoregulation.
- knowledge and interest in receptor interactions and the molecular aspects of cell activation.
- excellent verbal and written communication skills.

We offer excellent compensation and benefits as well as an attractive relocation policy. For confidential consideration, send your C.V. and the names of three references to Robert F. Obst, R0092, R&D Senior Employment Consultant, Smith Kline & French Laboratories, Research and Development Division, P.O. Box 1539, King of Prussia, PA 19406-0630. We are an Equal Opportunity Employer, M/F/H/V.

SK&F
A SmithKline Beckman Company

PLANT BIOCHEMISTS SR. POTATO BREEDER

ESCAGEN CORPORATION, a public San Francisco Bay Area biotech company is applying plant biotechnology to develop marketable products in flavors, planting materials and improved crops for the food processing industry.

Outstanding opportunities are immediately available as follows:

GROUP LEADER *Ph.D., 5+ yrs. exp.*
SR. BIOCHEMIST *Ph.D., 2+ yrs. exp.*

Plant Biochemistry basic and applied research leading to the production of high value food ingredients. Experience in one or more of the following: Plant Tissue Culture, Enzymology, Metabolism or Secondary Metabolites.

SR. POTATO BREEDER *Ph.D., 2+ yrs. exp.*

Parental line development; production and evaluation of TPS hybrids. Experience required in potato breeding. TPS background desirable.

Good communication skills are essential to all positions. Industrial experience is a plus.

Escagen offers an excellent compensation program and a stimulating, fast growth environment. Send résumé to: Personnel, Escagen Corporation, 830 Bransten Road, San Carlos, Ca. 94070.



POSTDOCTORAL ASSOCIATES - M.I.T.

Applications are invited for postdoctoral associates with interests in mechanisms of chemical carcinogenesis. Educational background and/or experience in molecular biology/genetics of virology preferred for projects relating chemically-induced DNA damage to oncogene activation, mutagenesis, gene rearrangement, and expression. Related aspects include development of methodologies for detection of DNA damage in human tissues collected in epidemiological studies.

Please send curriculum vitae and the names of three references to Prof. G.N. Wogan, Department of Applied Biological Sciences, Massachusetts Institute of Technology, 77 Massachusetts Avenue, Room 16-333, Cambridge, MA 02139.

MIT is an equal opportunity/
affirmative action employer.

MIT

ASSOCIATE SCIENTIST/ MOLECULAR BIOLOGY

If you are looking for a highly visible position that offers growth, stability and recognition, you could find no better place than at our newly constructed, research facility in Wallingford, CT. Our continued growth, our investment in the future and our commitment to increased efforts in central nervous system molecular biology research have created an exceptional opportunity for an Associate Scientist/Molecular Neurobiology.

Requirements include an MS in Molecular Biology/Neuroscience or BS with equivalent years of experience and 1 or more years experience in molecular biology. Our successful candidate will be capable of implementing experimental protocols and test systems.

Bristol-Myers offers a highly competitive salary commensurate with your professional qualifications, liberal benefits and a stimulating environment in which to pursue your career.

Qualified individuals are invited to submit their resumes with salary expectations, in complete confidence to: **Bristol-Myers Company, PD-40, Pharmaceutical Research & Development Division, P.O.Box 5100, 5 Research Parkway, Wallingford, CT 06492. Principals only.** An equal opportunity employer.

Bristol-Myers

Pharmaceutical Research & Development Division

Biotechnology Scientists

NYGene, an innovative biotechnology products and instrument company is seeking experienced scientists for its research and development department. Successful applicants will have key roles in building this exciting enterprise.

RESEARCH DIRECTOR, BIOSEPARATION GROUP

PhD with 7+ years experience in affinity purification of antibodies and antigens. Demonstrated ability to direct research team in industrial or academic setting. lead team of 4.

GROUP LEADER, IMMUNODIAGNOSTIC REAGENT GROUP

PhD with 5+ years experience in Immunodiagnostic Reagent Development.

SENIOR SCIENTIST, CELL BIOLOGY GROUP

PhD with 7+ years experience in the growth and analysis of hybridomas.

The Company is located in lower Westchester County.

Candidates send their C.V. and salary requirements in confidence to:

NYGene Corp, R&D Dept.,
One Odell Plaza,
Yonkers, NY 10701.

NYGene Corp

An equal opportunity employer

Research Assistants/Associates

Genentech, Inc. is on the verge of dramatic growth as a major international pharmaceutical company. If you have high academic standards, we'd like to tap into your potential in the following positions:

Protein Purification & Characterization — Perform protein purification and characterization in support of R&D activities. Knowledge of chromatography, centrifugation and electrophoresis techniques required. Experience with immunoassay and monoclonal technology a plus. (#JG-2096)

Dosage Forms and Delivery Systems — Support the research, development and characterization of pharmaceutical manufacturing processes for protein dosage forms and delivery systems. Knowledge of pharmaceutical manufacturing techniques, physical chemistry, protein chemistry, and analytical methodology required. (#JG-1163)

Hybridoma/Assay Development — Generate and characterize monoclonal antibodies to support assay development and immunoaffinity purification of recombinant proteins expressed in mammalian cells. Experience with mammalian cell culture, hybridomas, and immunoassay development required (#JG-2094)

Cell Culture R&D — Set up and analyze experiments designed to optimize recombinant product secretion from mammalian cells. Experience with cell culture, DNA/RNA isolation/transfection/expression, and protein chemistry required. (#JG-0001)

Pharmacokinetics — Person will focus on the in vivo disposition of specific proteins using biopharmaceutical and pharmacokinetic techniques for pre-clinical. Requires an MS in Pharmacology, Biochemistry, or related field with 5 or more years of relevant experience. (#SW-1204)

Cardio-Vascular Pharmacology — You will be involved in research and development studies in the cardiovascular pharmacology area related to thrombosis and hemostasis. Requires BS or MS in Biology or related field with at least 2-4 years' relevant lab experience. (#SW-CVP)

Mass Spectrometry — Person will focus on mass spectrometer to further its analytical capabilities in research. Requires a BS or MS in Chemistry, Biochemistry, or related area plus 2-4 years' experience in operation of magnetic sector and quadrupole mass spectrometers. (#SW-1205)

Protein Biochemist — Person will isolate and characterize natural product proteins and peptides. Requires an MS with 2 years' experience or BS with 4 years' experience. (#SW-2117)

Genentech, Inc. offers an excellent salary and benefits packet coupled with the opportunity to make a significant contribution to our organization. Please send your resume indicating position number to: Genentech Inc., 460 Point San Bruno Blvd., South San Francisco, CA 94080. An equal opportunity employer.

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POSITIONS OPEN

PROGRAM OFFICER FOOD CHEMICALS CODEX

The National Research Council has an immediate opportunity to organize and manage the Food Chemicals Codex Project. The incumbent will work with a committee of experts to collect and analyze relevant scientific data, draft background reports and monographs. Applicants should have a Ph.D. or equivalent in chemistry, food science, toxicology, or a related discipline plus at least 2 years of experience in one of these fields. Good communication skills required. Knowledge of FDA food regulation desirable. Please submit résumé in confidence as soon as possible to: **F. Peter, NRC/FNB, 2101 Constitution Avenue, NW, Washington, DC 20418.** *Equal Opportunity Employer.*

RESEARCH ASSISTANT POSITIONS AGRICULTURAL BIOTECHNOLOGY

The Plant Cell Research Institute Inc., a company engaged in agriculturally-oriented biotechnology research and development, has two positions available at the research assistant level. Scientists interested in joining a team engaged in the genetic engineering of crop plants are invited to submit their résumés and references for consideration.

TISSUE CULTURE BIOLOGIST with B.S./M.S. degree. Experience with tissue culture of plants and some knowledge of biochemistry are required.

ORGANIC/BIO-ORGANIC CHEMIST with B.S./M.S. degree and a background in synthesis. Research experience and a record of productivity are desirable. Submit applications by 31 October to: **The Plant Cell Research Institute Inc., Personnel Resources, 6560 Trinity Court, Dublin, CA 94568.**

RICE UNIVERSITY RESEARCH ASSOCIATE

The Department of Biochemistry announces the availability of a Research Associate position in the area of metalloprotein structure and function. Previous experience in one of the following areas is desirable: Purification and/or characterization of membrane-bound enzymes, mitochondrial electron transport proteins, biochemical techniques. Interested individuals should send a complete résumé, together with the names of three people who are willing to provide references for the applicant.

All information should be sent immediately to: **G. Palmer, Biochemistry Department, Rice University, P.O. Box 1892, Houston, TX 77251.** *Rice University is an Equal Opportunity Employer.*

RESEARCH FACULTY POSITION: Department of Medicine, University of Illinois at Chicago seeking Ph.D. in biochemistry, pharmacology, microbiology, or molecular biology for research faculty position, available immediately. Assist and supervise research on purification, isolation, and characterization of novel peptides: their binding to receptors and mechanisms of action: enzymatic degradation: gene expression and regulation. Postdoctoral experience preferred. Salary commensurate with qualifications. Send curriculum vitae and bibliography to: **Sami I. Said, M.D., Professor and Associate Head of Research, Department of Medicine, University of Illinois at Chicago, P.O. Box 6998, Chicago, IL 60680. M/C 787.** *Affirmative Action/Equal Opportunity Employer.*

The University of Michigan Medical School, Department of Anesthesiology, has several **RESEARCH INVESTIGATOR/POSTDOCTORAL POSITIONS.** These positions are for basic research, with 2- to 3-year appointments. Applicants with training in cell biology, neurophysiology, or cardiac physiology are invited to apply. Ongoing research in the department includes the interaction of anesthetics with cardiac function and disease states and studies involving the action of volatile anesthetics at the cellular level. Send three copies of curriculum vitae to: **Dr. Paul Knight, Department of Anesthesiology, University of Michigan Medical Center, 1500 East Medical Center Drive, Ann Arbor, MI 48109-0048.** *A Non-Discriminatory/Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

RESEARCH ASSOCIATE: Postdoctoral position. Cellular biochemistry of bone cell differentiation. Requirement: Ph.D. in cell biology or biochemistry. Send curriculum vitae, summary of research experience, graduate transcript, and names and phone numbers of three references to: **Dr. Anna Brownell, Department of Biology, Chapman College, 333 North Glassell Street, Orange, CA 92666-1099.**

UNIVERSITY OF QUEENSLAND *Equal Opportunity in Employment is University Policy* **SECOND CHAIR—DEPARTMENT OF PHYSIOLOGY AND PHARMACOLOGY**

Candidates should have an international reputation with a demonstrated ability to attract funding from external granting bodies. This should be supported by a distinguished record in teaching at both graduate and undergraduate levels.

Preference will be given to candidates in a research area, such as cellular and molecular aspects of the autonomic nervous system, which complements and links the existing research strengths of the Department in sensory neuroscience, autonomic pharmacology, reproductive physiology, and cellular and molecular aspects of endocrinology and toxicology.

The Department maintains a wide range of interactions within the diverse resources of the Biological Sciences Group and the Faculties of Science, Medicine, Veterinary Science, Agriculture, and Dentistry.

Salary: \$A58,870 per annum. Closing date: 31 October 1987. Reference No. 37187.

Additional information and application forms are available from: **The Director, Personnel Services, University of Queensland, St. Lucia, Qld. 4067.**

SENSORY NEUROPHYSIOLOGIST: Tenure-track possibility for position available at assistant professor level. Serious commitment to collaborative work within the Microsurgical Research Center. Expertise required to characterize electrophysiologically the properties of central axons which have regenerated along peripheral nerve implants. Preference given to applicants experienced in spinal cord neurophysiology and tract-tracing and histological techniques. Please send curriculum vitae with three letters of recommendation to: **Dr. Julia Terzis, Microsurgical Research Center, Eastern Virginia Medical School, P.O. Box 1980, Norfolk, VA 23501.**

STAFF SCIENTIST STUDY OF NUTRITIONAL STATUS, PREGNANCY AND LACTATION

The Food and Nutrition Board of the National Research Council is seeking a staff scientist to assist an expert panel developing guidelines for nutritional management during pregnancy and lactation. The incumbent will assist a panel of experts in preparation of three reports over a 3-year period. Responsibilities include data collection, analysis, and preparation of background papers; organizing and managing task forces; maintaining contacts and seeking input from numerous segments of the nutrition community; and managing other administrative and scientific aspects of the study, including preparation of reports. Requires Ph.D. or equivalent in nutrition or related field, at least 2 years of related experience in maternal and child nutrition, and demonstrated writing skills. Please forward résumé and curriculum vitae to: **V. Laukaran, National Research Council, 2101 Constitution Avenue, NW, Washington, DC 20418.** *Equal Opportunity Employer.*

TEMPORAL LOBE EPILEPSY. A position as a **POSTDOCTORAL ASSOCIATE** is available immediately for a person with a Ph.D. in neuroanatomy or molecular biology, to study the distribution of neurotransmitters and their receptors in human and animal epileptogenic temporal lobe. The successful candidate will join an interdisciplinary team of M.D.'s and Ph.D.'s in an NIH funded Program Project. Send résumé and names of three references to: **Dr. Nihal C. de Lanerolle, Section of Neurosurgery, Yale University School of Medicine, 333 Cedar Street, New Haven, CT 06510.** *Yale is an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

SENIOR RESEARCH MOLECULAR BIOLOGIST SCIENTIST, Ph.D.

Expertise in recombinant DNA technology, tissue culture, mammalian cell transfection, and cell-free transcription in eukaryotic system. Key role in research on cis sequence and trans-acting protein regulation of eukaryotic transcription. A competitive salary, commensurate with experience, is offered. Send curriculum vitae and three letters of reference. **Box 135, SCIENCE.**

STAFF TOXICOLOGIST

Prepare study proposals, study protocols, and protocol amendments. Interact with sponsor representatives, act as Study Director in departmental studies, and provide scientific support to staff Ph.D. in pharmacology or toxicology required. Three to 5 years of experience desirable.

International Research and Development Corporation is an independent contract research laboratory specializing in animal safety evaluation (toxicology) studies for the pharmaceutical, agricultural, chemical and consumer industries as well as governmental agencies. We are located near Kalamazoo, Michigan, midway between Detroit and Chicago, in an area affording a broad range of urban or rural life-styles with excellent cultural and recreational opportunities. *We are an Equal Opportunity Employer with competitive compensation, benefits and relocation package.* Please send résumé to:

**Dr. E. I. Goldenthal
Director of Research
International Research and
Development Corporation
500 North Main Street
Mattawan, MI 49071**

TOXICOLOGIST/INHALATION TOXICOLOGIST/ENVIRONMENTAL HEALTH SCIENTIST/BIOLOGICAL HEALTH SCIENTIST—GS 11/12 (\$27,172–\$42,341 per annum). The U.S. Environmental Protection Agency (U.S. EPA) has three vacancies at Headquarters, in Washington, D.C., for positions in one or more of the above mentioned sciences. Major tasks will be risk assessment, toxicity testing, and evaluation. Candidates must have a degree in a field related to the health sciences; e.g., biology, toxicology, pharmacology, etc. Graduate training in inhalation toxicology, environmental health sciences, or public health would be highly desirable. Interested candidates should send their résumé or their SF-171 "Application for Federal Employment" to: **Dr. Reva Rubenstein, (SM) Section Chief, TAB, CAD, Office of Solid Waste, U.S. EPA, 401 M St., SW, Washington, DC 20460** within 2 weeks after publication of this notice.

The U.S. Environmental Protection Agency is an Equal Opportunity Employer. U.S. citizenship is required.

TOXICOLOGIST

The University of Texas–Houston, School of Public Health, has an opening in a tenure-track position for assistant professor of toxicology. A Ph.D. in toxicology and/or toxicology-related sciences with research/teaching experience in general toxicology is required. Responsibilities consist of teaching toxicology courses in the M.P.H., M.S., Dr.P.H. and Ph.D. programs and conducting research in environmental and/or industrial toxicology. Applicants should send a detailed résumé before 1 November 1987 to: **Dr. E. M. Davis or Dr. E. W. Fairchild, The University of Texas, School of Public Health, P.O. Box 20186, Houston, TX 77225.**

An Equal Opportunity Employer. Women and Minorities are Encouraged to apply.

UNIVERSITY OF PENNSYLVANIA

TWO TENURE-TRACK POSITIONS to begin at the assistant professor level are available in the Department of Human Genetics, University of Pennsylvania. Candidates (Ph.D. or M.D.) with training in molecular biology and a record of research in genetics are urged to apply. The Department of Human Genetics is seeking to expand its research program in molecular biology, with an emphasis on development. The positions are to be filled with researchers who can develop independent programs in the areas of gene regulation, development and differentiation, oncogenesis or neuroscience. Send résumé to: **Robert L. Nussbaum, M.D., Department of Human Genetics, University of Pennsylvania, Room 196 John Morgan Building, Philadelphia, PA 19104-6072.** *An Equal Opportunity/Affirmative Action Employer.*

University of Illinois at
Urbana-Champaign
Department of Veterinary Biosciences
College of Veterinary Medicine
3516 Veterinary Medicine
Basic Sciences Building
2001 South Lincoln Avenue
Urbana, IL 61801
217 333-2506

MAMMALIAN MOLECULAR GENETICIST

The Department of Veterinary Biosciences, College of Veterinary Medicine, University of Illinois invites applications for a tenure track position at the assistant professor level in Mammalian Molecular Genetics. This position is expected to provide additional strength to major college programs in biological regulatory mechanisms and their genetic control and will also interact with campus-wide biotechnology programs. The successful candidate should have research interests in the genetic expression of regulatory molecules in *mammalian* cells. Areas of interest include developmental biology, connective tissues, neurobiology, and endocrine/reproductive biology.

Candidates should possess the Ph.D. plus postdoctoral experience with a strong background in mammalian molecular biology and recombinant DNA methodology. The incumbent will be expected to develop a strong extramurally funded research program and participate in the graduate training programs in his/her area of expertise. Applicants must be fluent in English. Salary will be commensurate with qualifications and experience. To ensure full consideration, applications must be received by October 15, 1987. Starting date will be on or after March 1, 1988.

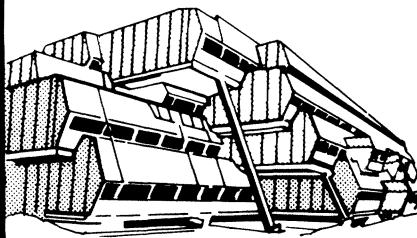
To apply, send current curriculum vitae and names of four (4) referees to: **Dr. Gary L. Jackson, Chair, Molecular Biology Search Committee, Dept. of Veterinary Biosciences, University of Illinois, 2001 So. Lincoln Ave., Urbana, IL 61801, telephone (217) 333-2506.** The University of Illinois is an affirmative action/equal opportunity employer.

GENETIC TOXICOLOGIST

BURROUGHS WELLCOME CO., a progressive pharmaceutical company located in Research Triangle Park, North Carolina, and having close research contact with three major universities, has an immediate opening for a Genetic Toxicologist with a Molecular Genetics background.

Candidate must have an M.S. degree or equivalent experience in the biological sciences with emphasis in genetics, and a demonstrated ability to independently perform, evaluate and report for regulatory and/or publication purposes on *in vitro* and *in vivo* genetic toxicology tests. Excellent oral and written communication skills are required. Must also be willing to learn and perform cultured mammalian cell mutagenesis assays. Candidate must be versed in current molecular genetics techniques (restriction mapping and blotting procedures), and be capable of independent and collaborative research on the molecular mechanisms involved in mammalian cell mutagenesis. Experience in cytogenetics or willingness to learn same is highly desirable.

BURROUGHS WELLCOME CO. offers comprehensive company-paid benefit package, a competitive salary and an excellent environment in which to apply your professional capabilities. Qualified minority, female, veteran and handicapped individuals are encouraged to apply. Because of the immediate availability of this position, we request inquiries be sent in by October 12, 1987. Qualified individuals should send curriculum vitae and transcripts to: **Employment Supervisor, Position # 2018, BURROUGHS WELLCOME CO., 3030 Cornwallis Road, Research Triangle Park, NC 27709.**



**BURROUGHS
WELLCOME CO.**



Wellcome

An Equal Opportunity/Affirmative Action Employer

SCIENCE EDITOR

Academic Press, Inc., as an international publisher of scientific and technical information, invites applications for a New York-based editorial position.

The position offers a role in shaping future commercial scholarly publishing for the life sciences. Applicants must be familiar with scientific publishing as a result of graduate and post-graduate education or through previous publishing experience. A graduate-level degree or its experiential equivalent is essential.

The ideal candidate will offer informed enthusiasm, creative alternatives, and reasoned judgments. Direct interactions with active scientists through extensive travel is required.

Comprehensive benefits and an excellent starting salary accompany the position. Applications should be sent to Ms. M. Knell, Academic Press, 111 Fifth Avenue, New York, NY 10003.



An Equal Opportunity Employer M/F/H/V

ANTIBACTERIAL CHEMOTHERAPY

The Sterling-Winthrop Research Institute is seeking two exceptional senior level research microbiologists to join its expanding Antibacterial Chemotherapy Section.

SENIOR RESEARCH BIOLOGIST- MOLECULARLY TARGETED SCREENS

This individual will be responsible for the development of molecular-based screening systems for the discovery of novel antibacterial agents. The successful candidate will have training and experience in bacterial biochemistry and genetics. Experience with target-based screening systems is highly desirable.

SENIOR RESEARCH BIOLOGIST- BACTERIAL PHYSIOLOGY

This individual will be responsible for the elucidation of the mechanism of action of novel antibacterial agents, and of the interaction of antibacterial agents with mammalian host cells. The successful candidate will have training and experience in bacterial physiology. Experience in mammalian cell biology and antibacterial mechanism of action is highly desirable.

The successful candidates should possess a Ph.D. with 2-5 years post-graduate experience and a track record of high productivity and research excellence.

We offer an attractive salary and benefits package with the opportunity for professional growth. The Institute is located near Albany, New York, a dynamic state capital and a center for summer and winter recreational activities. Please send resume to:

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REQUESTS FOR PROPOSALS

REQUEST FOR PROPOSALS FOR EFFLUENT DILUTION MODELING AND BIOASSAY TESTING

New York City's Department of Environmental Protection invites consulting firms to submit proposals and statements of qualifications for the performance of effluent dilution modeling and bioassay testing, including Tier I and II tests and TRE's. Detailed Requests for Proposals are available from NYC-DEP. Proposals and a statement of qualifications must be submitted by 4 p.m. on 30 October 1987 to: **Angelika Forndran, P.E., Chief, Water Quality Section, Bureau of Wastewater Treatment, NYC-DEP, Wards Island, NY 10035, Telephone: 212-860-9388.**

DYSTONIA MEDICAL RESEARCH FOUNDATION INVITES RESEARCH GRANT AND FELLOWSHIP APPLICATIONS

Dystonia is a symptom which occurs in several human disorders. It consists of involuntary, often prolonged muscle spasms resulting in abnormal postures. The diseases include dystonia musculorum deformans (torsion dystonia), spasmodic torticollis, writers cramp, blepharospasm, and orofacial dystonia. Dystonia is thought to be due to basal ganglia dysfunction but pathological findings are few. Present animal models are unsatisfactory.

Research proposals on dystonia are solicited, particularly those aimed at discovering the cause or improving the treatment. Grants are typically limited to \$25,000 per year, renewable for one or two additional years.

Applications are sought for a \$50,000 a year fellowship, renewable for 3 years. The objective is to attract gifted investigators to committing their time and effort to research in dystonia, not only for the period of the Fellowship Award, but hopefully for many years thereafter. Applicants must have a M.D. or Ph.D. degree and strong support from sponsoring institution.

Deadline for grant and fellowship review is 15 December 1987. For application forms (please specify grant or fellowship), please write to: **Charles H. Markham, M.D., Scientific Director, Dystonia Medical Research Foundation, 8383 Wilshire Boulevard, Suite 800, Beverly Hills, CA 90211.**

FELLOWSHIPS

FELLOWSHIP THORACIC ONCOLOGY

A position is available (starting January 1988) in the Department of Thoracic Surgery and Oncology at the Roswell Park Memorial Institute, Buffalo, NY.

The core of the training will be centered around diagnosis, treatment, and research in the intrathoracic malignancies, especially lung cancer. Areas of interest include chemotherapy, immunotherapy, research in lung cancer immunology, and lung transplantation.

The fellow must have had at least 3 years of approved residency training in the U.S.

Interested candidate should contact: **H. Takita, M.D., D.Sc., F.A.C.S., Chief, Department of Thoracic Surgery and Oncology, Roswell Park Memorial Institute, 666 Elm Street, Buffalo, NY 14263; Telephone: 716-845-2300.**

JOHNS HOPKINS ONCOLOGY CENTER POSTDOCTORAL FELLOWSHIPS

Applications are sought for multiple research positions in development of innovative modalities of cancer therapy. Areas of research interest include:

Cellular and Molecular Immunology
Cellular and Molecular Radiobiology
Medical and Molecular Cytogenetics

Applicants should hold the M.D., Ph.D., or equivalent degrees and have demonstrated ability to achieve excellence in research. Applicants should submit curriculum vitae, a letter of research interests, and a list of three individuals who will act as advocates for the applicant.

Send requested materials to:

**Dr. Jerry R. Williams
Radiobiology Laboratory
The Johns Hopkins Oncology Center
Room 2-121
600 North Wolfe Street
Baltimore, MD 21205**

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FELLOWSHIPS

NEUROBIOLOGY POSTDOCTORAL FELLOWSHIP available immediately to study functional and structural neuroplasticity during regeneration and aging using neurochemical, immunocytochemical, and molecular genetic techniques. Send curriculum vitae, names and addresses of three references to: **Gad Gilad, Head, Department of Neurobiology, Coriell Institute for Medical Research, Copewood Street, Camden, NJ 08103. Equal Opportunity Employment and Affirmative Action.**

POSTDOCTORAL FELLOWSHIP—Position is available to study genomic expression of human papillomaviruses in human tissues established as xenografts in nude mice and in cell culture. Candidates should have a Ph.D. or M.D. degree with extensive training and experience in molecular biology. Submit curriculum vitae and names of three references to: **John W. Kreider, M.D., Department of Pathology, Milton S. Hershey Medical Center, P.O. Box 850, Hershey, PA 17033. An Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL FELLOWSHIPS are available in light and electron optical and spectroscopic training in cardiovascular research. Candidates will receive training and participate in research conducted on cardiac, vascular smooth, and skeletal muscle and blood platelets with methods including electron probe x-ray microanalysis, x-ray mapping, electron energy loss spectroscopy, energy filtered imaging, scanning confocal and conventional light microscopy, image processing and the use of fluorescent indicators. Members of training faculty are: **Dr. Stephen M. Baylor, Dr. Britton Chance, Dr. Gordon W. Ellis, Dr. Clara Franzini-Armstrong, Dr. John S. Leigh, Jr., Dr. Martin Morad, Dr. John M. Murray, Dr. Lee D. Peachey, Dr. Brian M. Salzberg, Dr. Joseph Sanger, Dr. Henry Shuman, Dr. Andrew P. Somlyo, Dr. Avril V. Somlyo.**

Send letter of application with curriculum vitae (including publications) to:

**A. P. Somlyo, M.D.
Director, Pennsylvania Muscle Institute
University of Pennsylvania
The School of Medicine
B42 Anatomy—Chemistry Building
Philadelphia, PA 19104-6083**

Two letters of recommendation are also required and should be mailed directly to: **Dr. A. P. Somlyo.**

Candidates with doctoral degrees in biological sciences or physics, or background in physiology, electron microscopy, and/or molecular genetics and having some previous experience with any of these methods are given preference, but applications will also be considered from individuals with a strong biological background and requiring training with imaging methods. U.S. citizens and permanent residents only are eligible for appointments at the NIH postdoctoral fellowship level. The beginning stipend ranges from \$16,000 to \$30,000 based on the years of relevant postdoctoral experience.

The University of Adelaide South Australia invites applications from both women and men for a **RESEARCH FELLOWSHIP** in the Departments of Agricultural Biochemistry and Agronomy at the Waite Agricultural Research Institute. The Fellowship is funded by the J. A. T. Mortlock Bequest for work in the area of cereal molecular genetics. The project involves the development of methods for mapping of molecular probes in wheat and barley with the ultimate aim of producing a high density genetic map of these two cereals. Applicants should have a degree of Ph.D. and preferably have postdoctoral experience in the areas of molecular genetics and/or cereal genetics. The level of appointment will depend upon the experience of the successful applicant. Travel and removal expenses will be provided as for a Lecturer position. The Fellowship is available from early 1988 for 2 years from commencement with the possibility of a further year. Further information concerning the duties of the position may be obtained from: **Dr. P. Langridge, Agricultural Biochemistry Department, telephone: 08 372 2368 or Dr. K. Shepherd, Agronomy Department, telephone: 08 372 2245.** Annual salary: AUS\$28,381 × 7 to AUS\$37,122. Applications in duplicate, quoting reference number 4865, giving personal particulars (including whether candidates hold Australian permanent residency status), résumé and names and addresses of three referees should reach: **The Registrar, University of Adelaide, GPO Box 498, Adelaide, South Australia, 5001, Telex UNIVAD AA 89141** not later than 19 October 1987. *The University is an Equal Opportunity Employer.*

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIP

Postdoctoral fellowship funded opening in molecular and cellular biology of human proteinase inhibitors and hepatic acute phase genes. Send curriculum vitae, including references to: **Dr. David Perlmutter, Departments of Pediatrics and Cell Biology, Washington University Medical School, 660 South Euclid, Box 8116, St. Louis, MO 63110.**

RESEARCH FELLOWSHIPS IN GERONTOLOGY

Postdoctoral and predoctoral research fellowships, supported in part by training grants from the National Institute on Aging, are available at The University of Michigan Institute of Gerontology. Predoctoral fellows must also be enrolled in an academic department. Stipends, tuition, fees, and travel support will be provided to qualified applicants. Prospective faculty mentors represent the behavioral, biological, clinical, and social sciences and the humanities as follows: **W. A. Achenbaum, Ph.D.; R. C. Adelman, Ph.D.; D. Aminoff, Ph.D., D.Sc.; B. J. Cohen, D.V.M., Ph.D.; J. A. Faulkner, Ph.D.; B. E. Fries, Ph.D.; A. Gafni, Ph.D.; J. B. Halter, M.D.; A. R. Herzog, Ph.D.; J. S. House, Ph.D.; N. Krause, Ph.D.; J. Kuwada, Ph.D.; J. Liang, Ph.D.; M. A. Perlmutter, Ph.D.; D. G. Steel, Ph.D.; L. M. Verbrugge, Ph.D.; B. Villeponteau, Ph.D.; T. P. White, Ph.D.** Candidates should forward a letter of interest, complete curriculum vitae and bibliography, and identification of potential faculty mentor to: **Ms. Jane Ketchin, Institute of Gerontology, The University of Michigan, 300 North Ingalls, Ann Arbor, MI 48109-2007.** Candidates also should arrange for delivery of official copies of graduate transcripts and at least three letters of recommendation. *The University of Michigan is an Equal Opportunity Employer.*

TRAINING PROGRAM

POSTDOCTORAL TRAINING PROGRAM IN THE PHYSIOLOGY OF REPRODUCTION

The Center for Reproductive Physiology at the University of Pittsburgh School of Medicine has positions available for postdoctoral fellows (Ph.D. and/or M.D.) to obtain 2 years of advanced training in the study of reproduction in higher primates and other mammals. The program, which is supported in part by the University of Pittsburgh School of Medicine, is directed by a steering committee comprising both basic and clinical scientists. The training faculty and their research interests include: **J. A. Amico**—posterior pituitary peptides; **B. J. Attardi**—gonadotropin mRNA regulation; **J. L. Cameron**—metabolism and LH secretion; **V. L. Gay**—neuroendocrinology; **G. E. Hoffman**—neuroanatomy of hypothalamic RF systems; **H. S. Keeping**—inhibin; **P. A. Lee**—human puberty; **G. R. Marshall**—spermatogenesis; **T. M. Plant**—ontogeny of pulsatile GnRH secretion; **C. R. Pohl**—regulation of GnRH secretion; **S. M. Pomerantz**—endocrine control of behavior; **K. D. Ryan**—female puberty; **M. S. Smith**—neuroendocrine control of LH and PRL; **P. Troen**—human testicular function; **S. J. Winters**—neuroendocrine control of testis; **A. J. Zeleznik**—folliculogenesis/corpus luteum.

Applicants must meet NRSA U.S. citizenship and residency requirements. Address application, curriculum vitae, and names of three referees to: **Tony M. Plant, Ph.D., Director, Center for Reproductive Physiology, Department of Physiology, University of Pittsburgh School of Medicine, 616 Scaife Hall, Pittsburgh, PA 15261.**

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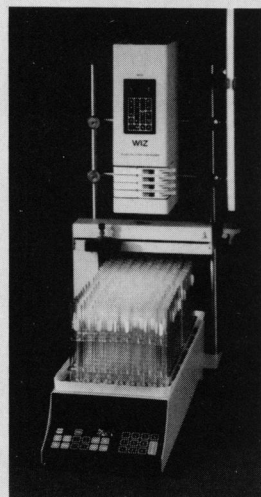
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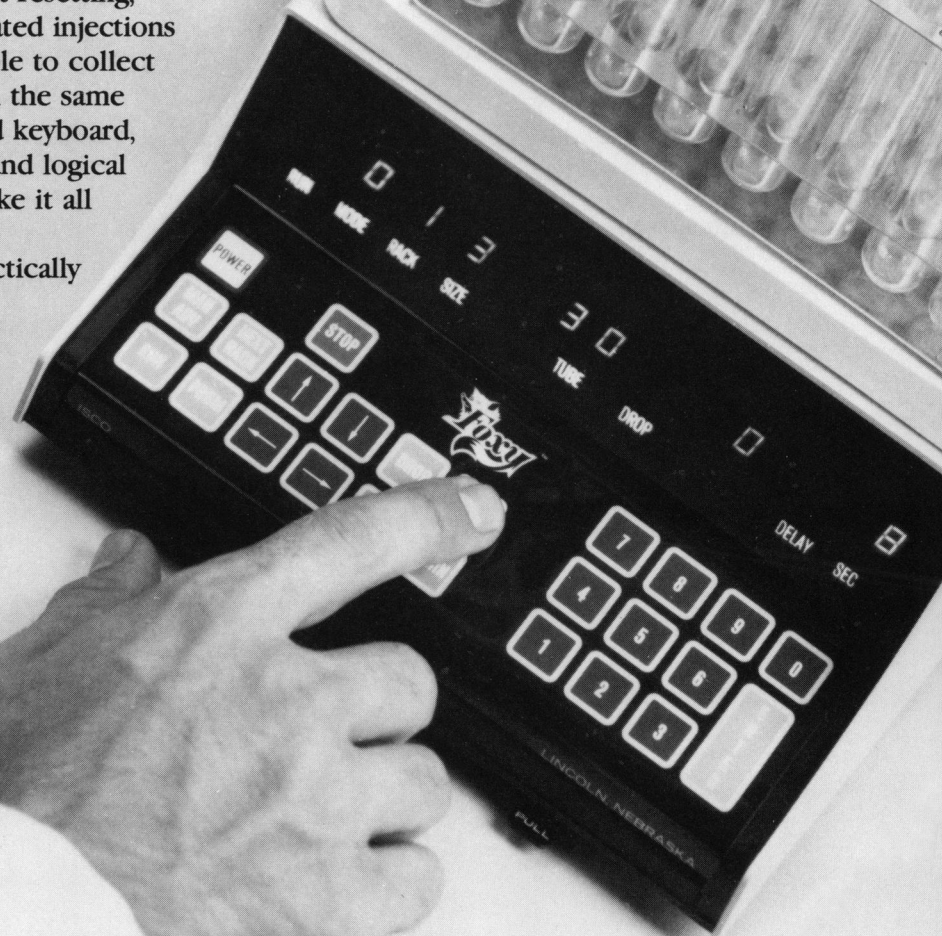
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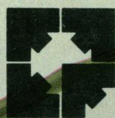
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