

(by as much as sixfold), in sexual dimorphism (males the same size as females or larger), and in the distribution of individuals among age classes (unimodal or bimodal). Schwaner suggests that the maximum size of snakes on an island is related to the size of the prey available, which varies from island to island. The smallest snakes occur on islands where lizards are the principal prey, and progressively larger snakes are found on islands where the snakes prey on house mice, rats, and bandicoots. Sexual dimorphism may be correlated with differences in food habits of male and female snakes. In a later chapter R. Shine points out that sexual dimorphism among elapid snakes is frequently associated with male-male combat and sexual selection, suggesting the possibility of differences in social behavior among the island populations that parallel the differences in sexual dimorphism.

The section on biogeography focuses on the long history of the amphibian and reptilian faunas of Australia, New Zealand, and the islands of the western Pacific. J. D. Roberts and L. R. Maxson summarize their view that, contrary to previous interpretations, the diversity of frogs in southwestern Australia has resulted from speciation in situ rather than from multiple invasions from the east. They tentatively place the date for east-west divergences in the Tertiary. G. F. Watson and M. J. Littlejohn favor Pleistocene changes in sea level as the basis for speciation among frogs of southeastern Australia. These events also enter largely into J. R. H. Gibbons's ambitious synthesis of geological, climatological, and biological factors to explain the distribution of reptiles and amphibians in the archipelagos of the southwestern Pacific. When water gaps between islands were narrower, Gibbons suggests, species with reproductive characteristics such as internal fertilization, direct developing eggs, parthenogenesis, and long incubation times were able to colonize new habitats by rafting. Other species, particularly on New Zealand, represent ancient lineages that have radiated in situ.

The most dramatic example of speciation in the Australasian region is the elapid snake fauna of the Australian mainland, and a quarter of the book is devoted to this subject. In the near or complete absence of vipers and colubrid snakes, elapids have radiated into a continent-wide complex of some 75 species. The origin and phylogeny of that radiation are addressed by authors using techniques ranging from microcomplement fixation (Schwaner *et al.*) and venom proteins (M. Tamiya) through karyotype (M. King, G. A. Mengden) to soft tissue morphology (V. Wallach) and ecology and behavior (Shine). Points of agree-

ment include regarding Australian elapids as a natural group, distinct from the elapids of Asia and Africa but close to the hydrophiine sea snakes. Affinities within the Australian snake fauna are more problematic, but a split between viviparous and oviparous lineages suggested on ecological grounds by Shine receives support from other approaches.

The papers on reproductive biology and physiological ecology are mostly descriptive and make no attempt to formulate or test hypotheses. Notable exceptions are syntheses of information about viviparity among reptiles by Shine and by L. J. Guillette. Shine emphasizes the association of viviparity with cold climates in Australia, a relationship that has previously been noted on other continents. Guillette suggests a mechanism by which an environmental stress, such as low temperature, could act through the general adaptation syndrome to prolong the secretory activity of the corpus luteum and thereby promote the retention of eggs in the oviducts as a preliminary step toward viviparity.

The sparse information about the ecology of most species of Australasian amphibians and reptiles makes conservation difficult. M. J. Tyler and M. Davies point out that in less than a decade the gastric brooding frog (*Rheobatrachus silus*) was discovered, attracted worldwide attention because of its unique mode of reproduction, and disappeared: No individuals have been seen in the field in the past five years. What is the normal abundance of this species—the large populations that existed in 1973, when it was discovered, or its current invisible state? The difficulties of shaping effective protection for poorly known and possibly rare species of amphibians and reptiles are outlined by H. Ehmann and H. Cogger, who produce estimates of the annual mortality of Australian reptiles and frogs suggesting that road kills and habitat destruction are the major categories of mortality resulting from human activities. Protective legislation is currently based on regulating the collection of animals for commercial and scientific purposes, uses that are estimated to account for less than 1 percent of the total human-induced mortality. (Ironically, the only major commercial exploitation of reptiles in Australia—the capture of sea snakes for their skins—is not regulated because Queensland does not classify sea snakes as reptiles.) Ehmann and Cogger make a strong plea for protection of habitats rather than protection of species.

The volume is enhanced by color photographs. Few of these are directly relevant to the text, but they are among the finest photographs of Australian amphibians and reptiles I have seen.

This volume is remarkable in that it summarizes the activities of the herpetologists of an entire continent, drawing participants from all parts of Australia and the Pacific and from a variety of settings—universities, museums, zoos, and government departments. It thus provides a rare opportunity to evaluate the state of the discipline. Biogeography and systematics emerge as the strongest areas of research, partly because of the well-organized symposium on elapid snakes. Ecology and physiological ecology are represented by important individual contributions, but experimental and broadly integrative approaches are more the exception than the rule. Studies of behavior are surprisingly few. The unique phylogenetic and geographic histories of the Australian herpetofauna provide opportunities for ecological, physiological, and behavioral research that have yet to be fully exploited.

F. HARVEY POUGH

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Reprints of Books Previously Reviewed

Evolution of Insect Mating Systems. Randy Thornhill and John Alcock. Harvard University Press, Cambridge, MA, 1986. Paper, \$19.95. Reviewed **223**, 808 (1984).

The Mathematical Theory of Quantitative Genetics. M. G. Bulmer. Clarendon (Oxford University Press), New York, 1986. Paper, \$19.95. Reviewed **212**, 320 (1981).

The Periodic Table. Primo Levi. Shocken, New York, 1986. Paper, \$6.95. Reviewed **228**, 66 (1985).

The Psychology of Literacy. Sylvia Scribner and Michael Cole. Harvard University Press, Cambridge, MA, 1986. Paper, \$10.95. Reviewed **215**, 1494 (1982).

Books Received

Ancient Sedimentary Environments and Their Sub-surface Diagnosis. Richard C. Selley. 3rd ed. Cornell University Press, Ithaca, NY, 1986. xviii, 317 pp., illus. \$49.50; paper, \$19.95.

Applications of Circular Polarized Radiation Using Synchrotron and Ordinary Sources. Fritz Allen and Carlos Bustamante, Eds. Plenum, New York, 1985, xii, 193 pp., illus. \$45. From a workshop, Albuquerque, NM, May 1984.

Applied Classical Electrodynamics. Vol. 1, Linear Optics. F. A. Hopf and G. I. Stegeman. Wiley-Interscience, New York, 1985. x, 262 pp., illus. \$29.95. Wiley Series in Pure and Applied Optics.

Applied Polymer Science. Roy W. Tess and Gary W. Pochlin, Eds. 2nd ed. American Chemical Society, Washington, DC, 1985. x, 1342 pp., illus. \$59.95. ACS Symposium Series, 285.

Arterial Variations in Man. Classification and Frequency. Herbert Lippert and Reinhard Pabst. Bergmann, Munich, 1985. vi, 121 pp., illus. \$29.

The Burning Forest. Essays on Chinese Culture and Politics. Simon Leys. Holt, Rinehart and Winston, New York, 1986. xiv, 257 pp. \$16.95. A New Republic Book.

Causation of Cardiovascular Risk Factors in Children. Perspectives on Cardiovascular Risk in Early Life. Gerald S. Berenson, Ed. Raven, New York, 1985. xxii, 408 pp., illus. \$69.50.

(Continued on page 536)

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(Continued from page 534)

Characterization and Measurement of Flavor Compounds. Donald D. Bills and Cynthia J. Mussinan, Eds. American Chemical Society, Washington, DC, 1985. viii, 184 pp., illus. \$42.95. ACS Symposium Series, 289. Based on a symposium, Philadelphia, Aug. 1984.

The Dosimetry of Ionizing Radiation. Vol. 1. Kenneth R. Kase, Bengt E. Bjärgard, and Frank H. Attix, Eds. Academic Press, Orlando, FL, 1985. x, 416 pp., illus. \$69.50; paper, \$34.95.

The Early Development of Morphology and Patterns of the Face in the Human Embryo. Klaus Hinrichsen. Springer-Verlag, New York, 1985. viii, 79 pp., illus. Paper, \$28.50. Advances in Anatomy, Embryology and Cell Biology, vol. 98.

Earthquake Engineering for Large Dams. Radu Priscu *et al.* Editura Adademic, Bucharest, and Wiley, New York, 1985. 406 pp., illus. \$44.95. Revision and translation of the Romanian edition (Bucharest, 1980). \$44.95.

Evaluation of Large Ruminants for the Tropics. J. W. Copland, Ed. Australian Centre for International Agricultural Research, Canberra, 1985. 178 pp., illus. \$A15. ACIAR Proceedings, no. 5. From a workshop, Rockhampton, Queensland, March 1984.

Feeding the Mother and Infant. Myron Winick, Ed. Wiley-Interscience, New York, 1985. x, 164 pp., illus. \$49.95. Current Concepts in Nutrition.

Fundamentals of Speech Signal Processing. Shuzo Saito and Kaluo Nakata. Academic Press, Orlando, FL, 1985. x, 266 pp., illus. \$59.

The Future of State Universities. Issues in Teaching, Research, and Public Service. Leslie W. Koepplin and David A. Wilson, Eds. Rutgers University Press, New Brunswick, NJ, 1985. x, 314 pp., \$20; paper, \$8.

Genetic Basis of Biochemical Mechanisms of Plant Disease. James V. Groth and William R. Bushnell, Eds. APS, St. Paul, MN, 1985. x, 157 pp., illus. Paper, \$24; to members, \$18. From a symposium, Guelph, Ontario, Aug. 1984.

Geological Strain Analysis. A Manual for the R₀/Q Method. Richard J. Lisle. Pergamon, New York, 1985. viii, 99 pp., illus. \$15; paper, \$8.95.

Geology and Radwaste. A. G. Milnes. Academic Press, Orlando, FL, 1985. xvi, 328 pp., illus. \$60; paper, \$39.95. Academic Press Geology Series.

Geometric Aspects of the Einstein Equations and Integrable Systems. R. Martini, Ed. Springer-Verlag, New York, 1985. vi, 344 pp. Paper, \$20.50. Lecture Notes in Physics, vol. 239. From a conference, Scheveningen, Netherlands, Aug. 1984.

Good Company and Violence. Sorcery and Social Action in a Lowland New Guinea Society. Bruce M. Knauft. University of California Press, Berkeley, 1985. x, 474 pp., illus., + plates. \$40. Studies in Melanesian Anthropology.

Human T Cell Clones. A New Approach to Immune Regulation. Marc Feldmann, Jonathan R. Lamb, and James N. Woody, Eds. Humana, Clifton, NJ, 1985. xvi, 455 pp., illus. \$65. Experimental Biology and Medicine. From a conference, Oxford, England, Sept. 1984.

Implantation of the Human Embryo. Proceedings of the second Bourn Hall Meeting (Cambridge, England). R. G. Edwards, Jean M. Purdy, and P. C. Steptoe, Eds. Academic Press, Orlando, FL, 1985. xvi, 459 pp., illus. \$59.50.

In Vitro Effects of Mineral Dusts. Third International Workshop (Schluchsee, Germany, Oct. 1984). Ernst G. Beck and Jean Bignon, Eds. Springer-Verlag, New York, 1985. xiv, 548 pp., illus. \$89. NATO Advanced Science Institutes Series G, vol. 3.

The Nucleus Basalis-Neostriatum Complex in the Goose (Anser anser L.). C. Leonardus Veenman and Kay-Michael Gottschaldt. Springer-Verlag, New York, 1986. viii, 85 pp., illus. Paper, \$28.80. Advances in Anatomy, Embryology, and Cell Biology, vol. 96.

Numerical Analysis of Parametrized Nonlinear Equations. Werner C. Rheinboldt. Wiley-Interscience, New York, 1986. xii, 299 pp., illus. Paper, \$34.95. University of Arkansas Lecture Notes in the Mathematical Sciences, vol. 7.

Numerical Simulation of Combustion Phenomena. R. Glowinski, B. Larrouturou, and R. Temam, Eds. Springer-Verlag, New York, 1985. x, 404 pp., illus. Paper, \$26.80. Lecture Notes in Physics, vol. 241. From a symposium, Sophia-Antipolis, France, Amy 1985.

Nutrient Cycling in Tropical Forest Ecosystems. Principles and Their Application in Management and Conservation. Carl F. Jordon. Wiley, New York, 1985. x, 190 pp., illus. \$24.95.

Nutrition and Aerobic Exercise. Donald K. Layman, Ed. American Chemical Society, Washington, DC, 1986. x, 149 pp., illus. \$34.95. ACS Symposium Series, 294. Based on a symposium, St. Louis, MO, April 1984.

The Organization Woman. Building a Career—An Inside Report. Edith L. Highman. Surveys by Arthur Highman. Human Sciences Press, New York, 1985. 204 pp., \$16.95.

Physics and Technology of Nuclear Materials. Ioan Ursu. Pergamon, New York, 1985. xii, 528 pp., illus. \$59.50. Translated from the Romanian edition (1982).

Physics and the Ultimate Significance of Time. Bohm, Prigogine, and Process Philosophy. David Ray Griffin, Ed. State University of New York Press, Albany, 1986. xvi, 322 pp., illus. \$44.50; paper, \$14.95. Based on a conference, Claremont, CA, March 1984.

Plant Genetic Engineering. John H. Dodds, Ed. Cambridge University Press, New York, 1985. viii, 312 pp., illus. \$39.50.

Process and Outcome in Peer Relationships. Edward C. Mueller and Catherine R. Cooper, Eds. Academic Press, Orlando, FL, 1986. xvi, 360 pp., illus. \$50; paper, \$29.95. Developmental Psychology Series.

The Rhizosphere. Elroy A. Cury and Bryan True-love. Springer-Verlag, New York, 1986. x, 288 pp., illus. \$83. Advanced Series in Agricultural Sciences 15.

Searching the Horizon. A History of Ames Research Center, 1940–1976. Elizabeth A. Muenger. National Aeronautics and Space Administration, Washington, DC, 1985 (available from Superintendent of Documents, Washington, DC). xiv, 302 pp., illus. Paper, \$13. NASA History Series. NASA SP-4304.

Transport Process, Iono- and Osmoregulation. Current Comparative Approaches. R. Gilles and M. Gilles-Baillien, Eds. Springer-Verlag, New York, 1985. xviii, 483 pp., illus. \$95. Proceedings in Life Sciences. From a symposium, Liege, Aug. 1984.

The Traveling Salesman Problem. A Guided Tour of Combinatorial Optimization. E. L. Lawler *et al.*, Eds. Wiley-Interscience, New York, 1985. x, 465 pp., illus. \$64.95. Wiley-Interscience Series in Discrete Mathematics.

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Applications are invited from suitably qualified individuals for **ASSISTANT PROFESSORS OF PLANT PATHOLOGY, ANIMAL SCIENCE, and AGRICULTURAL ECONOMICS.** Tenure-track, 12-month employment (initially a 3-year contract). Major activity is research. Includes some teaching and extension work in all three positions. Minimum qualification: Ph.D. degree in plant pathology, animal science and agricultural economics respectively. Send résumé and request three referees to send their evaluations to: **Dr. W. P. Leon Guerrero, Dean, College of Agriculture and Life Sciences, University of Guam, Mangilao, Guam 96923, U.S.A.**

TWO POSITIONS IN IMMUNOLOGY: (These are readvertisements). Department of Medical Microbiology and Immunology, Ohio State University Medical Center, is seeking two highly qualified applicants to fill tenure-track positions beginning 1 July 1986. One position will be for a molecular immunologist, at assistant or associate professor level, depending upon qualifications. The second position will be for a cellular immunologist/tumor immunologist, at assistant professor level. Applicants should hold M.D. or Ph.D. degree and at least 2 years of postdoctoral experience, and have a strong record of scholarly achievement. Responsibilities include establishing an active research program in their area of specialization, and participation in graduate and medical teaching programs. Submit curriculum vitae, including reprints, an outline of research interests, and three letters of reference to: **Ronald Glaser, Ph.D., Professor and Chairman, Department of Medical Microbiology and Immunology, The Ohio State University, 333 West 10 Avenue, Columbus, Ohio 43210.**

Ohio State University is an Equal Opportunity Employer

CHAIRPERSON Psychology Department

The Psychology Department at Northeastern University seeks an Experimental Psychologist of senior academic rank to serve as Chairperson. The successful candidate is expected to provide leadership in further developing research, graduate, and undergraduate programs. Applicant must have Ph.D. in Psychology or closely allied field and be an accomplished and productive scientist in one or more of the Department's specialization areas. (Language and Cognition, Learning and Motivation, Perception, Personality and Social Psychology, Biological and Neuro-Psychology and Sensory Psychology). Candidate must also have demonstrated abilities in administration and is expected to supervise graduate students and contribute to formal instruction. The salary is competitive. Please send **Dossier, (Vita, list of publications, and three letters of reference) to Perrin Cohen, Chairman, Search Committee, Department of Psychology, 282 Nightingale Hall, Northeastern University, 360 Huntington Avenue, Boston, MA 02115.** Northeastern is an Equal Opportunity/Affirmative Action, Title IX University.

**Northeastern
University**

WALTER REED ARMY MEDICAL CENTER WALTER REED ARMY INSTITUTE OF RESEARCH

is currently seeking applicants for the following positions:

Research Chemist GS-11 or 12
Research Physiologist GS-12
Research Epidemiologist GS-12
Research Psychologist GS-12
Research Sociologist GS-12
Microbiologist GS-11 or 12
Biologist GS-11 or 12

SALARY: GS-11 \$26,381 to start
GS-12 \$31,619 to start

These positions are temporary not to exceed one year. INTERESTED CANDIDATES MAY SUBMIT SF-171, PERSONAL QUALIFICATION STATEMENT TO: **MS. KATHRYN E. LEWIS, CIVILIAN PERSONNEL OFFICE, RECRUITMENT AND PLACEMENT DIVISION, BUILDING 11, room 2-118, WASHINGTON, D.C. 20307-5001.**

WALTER REED ARMY MEDICAL CENTER IS AN EQUAL OPPORTUNITY EMPLOYER

Postdoctoral Scientist Membrane Biochemist

The Department of Cell Biology at Smith Kline & French Laboratories located in suburban Upper Merion, Pennsylvania, is seeking an outstanding individual to join a multidisciplinary research effort investigating the pathogenesis of colon carcinoma. The successful candidate will combine skills in subcellular fractionation of membranes, purification of membrane (glyco) proteins and molecular genetics to identify and characterize differentiation antigens expressed by human colon epithelial cells.

Applicants should have:

- expertise in the isolation and characterization of membrane (glyco) proteins. Familiarity with molecular genetics techniques is desirable but not essential.
- a Ph.D. in Biochemistry.
- 0 - 3 years postdoctoral experience.
- a growing publication record.
- clear and concise communication skills.

We offer excellent compensation and benefits and an attractive relocation policy. For confidential consideration, send your CV and the names of three references to: Walter B. Flagg, Senior Employment Consultant, SmithKline Beckman Corporation, 1594 Spring Garden Street, Philadelphia, PA 19101. We are an equal opportunity employer, M/F/H/V.

SK&F
A SmithKline Beckman Company

SCIENTISTS/ ASSISTANT SCIENTISTS

Medical Diagnostic Product Development

Ortho Diagnostic Systems, Inc, a Johnson & Johnson Company in Central New Jersey, is seeking individuals to fill current and planned scientific openings requiring the following disciplines:

- **Immunochemistry**
- **Microbiology/Infectious Disease**
- **Protein Chemistry/Biochemistry**
- **Bio-Organic Chemistry**

Scientist level positions require a Ph.D or MS degree or equivalent. Assistant Scientist level positions require an MS or BS degree or equivalent. Both levels require related experience in one or more of the above disciplines. Additional experience specific to the development of diagnostic products is desirable.

Ortho Diagnostic Systems, Inc is a leader in medical diagnostics, and offers a professional environment, a competitive salary and an attractive benefits package including a dental plan and tuition reimbursement. Qualified candidates are encouraged to send their resumes and salary history in confidence to: **Employment Office, Box K**



**Ortho Diagnostic
Systems Inc**

Route 202 Raritan, N.J. 08869

A Johnson & Johnson Company

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

BIOZENTRUM University of Basel Switzerland

seeks to fill a position of

ASSISTANT PROFESSOR (Projektleiter)

in the Department of Structural Biology.

The candidate is expected to carry out research in protein crystallography, ideally with emphasis on membrane proteins. The appointment is for 5 years; after the fourth year, the appointee will be evaluated for possible tenure.

For further information, please contact:

Dr. J.N. Jansonius or Dr. J.P. Rosenbusch,
Biozentrum, Klingelbergstrasse 70, CH-
4056 Basel, Switzerland. Telephone: 61-
25 38 80.

IMMUNOLOGIST (Cytokines-Immune Regulation)

THE LILLY RESEARCH LABORATORIES, a division of Eli Lilly and Company, is seeking candidates for a Senior Scientist position in the area of cytokine research and immune regulation.

Applicants must have a doctoral degree with postdoctoral training. *In vitro* and *in vivo* experience in immune regulation and cytokine action on T and/or B cells is desirable. The Immunologist will establish his/her own laboratory in a new state-of-the-art research facility located at our Corporate Center. The Senior Scientist will join a group of scientists investigating immunoregulatory cytokine biology and chemistry and developing therapeutic agents that modulate immune related disease conditions.

Qualified candidates should send their curriculum vitae to:



John W. Crooks
Manager, College Relations (SI²)
Eli Lilly and Company
Lilly Corporate Center
Indianapolis, Indiana 46285

An Equal Opportunity Employer M/F

POSITIONS OPEN

EASTERN VIRGINIA MEDICAL SCHOOL (EVMS) TENURE-TRACK APPOINTMENT IN ANATOMY AND CELL BIOLOGY

The Department of Anatomy and Cell Biology is seeking 2 qualified applicants for tenure-track appointments at the **ASSISTANT PROFESSOR** level. Candidates should possess a Ph.D. or M.D. degree (or equivalent) and at least 2 years of postdoctoral training experience. Successful candidates will have demonstrated excellence in the teaching of the anatomical disciplines, as well as active research experience in neuroendocrinology, reproductive biology, or developmental neurobiology, with emphasis on regeneration and plasticity. Candidates for this position will be expected to pursue vigorous research programs supported by extramural funding. Interested individuals should send curriculum vitae, a complete bibliography, three letters of recommendation, and a brief description of their current and future research activities to:

David E. Scott, Ph.D.
Professor and Chairman
Department of Anatomy and Cell Biology
Eastern Virginia Medical School
P.O. Box 1980,
Norfolk, VA 23501

ASSISTANT PROFESSOR. The Department of Mechanical Engineering and Materials Science at Duke University invites applications for the position of assistant professor (tenure-track) in the general area of biomaterials and biomechanics. We are particularly interested in someone whose research work deals with the thermodynamics and mechanics of biomembranes, including the membranes of erythrocytes and lipid vesicles. Postdoctoral or industrial experience is desirable, as well as several publications or manuscripts in the applicant's area of expertise. The applicant should show promise for sustained research productivity and for attracting governmental or industrial support for his or her research. Individuals with research support are expected to teach one course per semester. Competitive salary. Please send curriculum vitae and the names of three references to: **Dr. Robert M. Hochmuth, Chairman, Department of Mechanical Engineering and Materials Science, Duke University, Durham, NC 27706. Duke University is an Equal Opportunity/Affirmative Action Employer.**

ASSISTANT PROFESSOR MOLECULAR BIOLOGY

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

Candidates must submit a recent curriculum vitae, reprints, and arrange to have three letters of recommendation sent by 5 June 1986 to: **E. L. Jarroll, Chair of the Search Committee, Department of Biology, CLEVELAND STATE UNIVERSITY, 1983 East 24 Street, Cleveland, Ohio 44115. An Equal Opportunity Employer, M/F/H.**

MEMORIAL UNIVERSITY OF NEWFOUNDLAND, Faculty of Medicine, Basic Sciences Division. Applications are being accepted for a tenure-track position in molecular biology at the **ASSISTANT OR ASSOCIATE PROFESSOR** level. Minimum qualifications required include a Ph.D. and postdoctoral experience in molecular biology. The successful candidate will be expected to establish a vigorous, independent research program which could complement ongoing programs in gene regulations at the transcriptional and post-transcriptional levels, chromatin organization, molecular cloning of receptor genes for hormones and viruses, and molecular approaches to oncogenesis.

In accordance with Canadian immigration regulations, preference will be given in the first instance to Canadian citizens or landed immigrants. Interested applicants should forward curriculum vitae with an indication of research plans and names of three references, by 1 July 1986 to: **Dr. A. T. H. Burness, Faculty of Medicine, Memorial University of Newfoundland, St. John's, Newfoundland, Canada A1B 3V6.**

POSITIONS OPEN

ASSISTANT PROFESSOR (PHYSICIAN) IN HUMAN NUTRITION

The Department of Nutritional Sciences, University of California, Berkeley, is seeking an assistant professor for a tenure-track position in human nutrition. The individual must hold an M.D. degree and be either licensed or eligible for licensure for the practice of medicine in the State of California. Specialization would be desirable in public health, metabolic disease, gastro-enterology, or endocrinology. The individual appointed will be expected to devote about half-time to teaching and half-time to nutritional research. Teaching assignments include normal and therapeutic nutrition and dietetics and related subjects. Research should be in the general field of human nutrition; much of the research will be carried out utilizing the facilities of the Koret Center for Human Nutrition at the San Francisco General Hospital. Graduate students working with the appointee will have program options in nutrition (M.S., Ph.D.), comparative biochemistry (Ph.D.) and combined programs with public health and health and medical sciences.

Interested persons should submit curriculum vitae, a description of their research interests, publication list, and a list of five individuals as references to: **Chairman, Search Committee for an Assistant Professor (Physician) in Human Nutrition, Department of Nutritional Sciences, University of California, Berkeley, CA 94720.** The deadline for submitting application materials is 16 May 1986, or until position is filled. The position is available 1 July 1986, or soon thereafter.

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

ASSISTANT SCIENTIST—position available. **Duties:** Research on the molecular functions of ion channels in cell membranes of microorganisms (protozoa, bacteria, yeast). **Requirements:** Ph.D. in biophysics; minimum 2 years of work or research experience in electrophysiology and culturing of microorganisms, radio-isotope techniques, and computer data analysis; minimum of three refereed publications in field. 40 hour per week minimum. \$25,000 per year. Send applications and two letters of reference by 27 May 1986 to: **E. Breitwieser, Job Service, 206 North Broom Street, Madison, WI 53703. An Equal Opportunity Employer; employer paid ad.**

BIOCHEMISTRY FACULTY POSITION

A tenure-track faculty position at the assistant or associate professor level is available effective 1 September 1986. The successful candidate will be expected to develop a productive, independently funded research program, as well as participate in the teaching of biochemistry to medical and graduate students. Biochemists who are interested in the application of physical, molecular, or biochemical techniques to problems in membrane biology or pathology are invited to send their curriculum vitae and the names of three references to: **Dr. A. A. Abdel-Latif, Chair, Biochemistry Search Committee, Department of Cell and Molecular Biology, Medical College of Georgia, Augusta, GA 30912-3331. The Medical College of Georgia is an Equal Opportunity/Affirmative Action Employer.**

CARDIOVASCULAR MOLECULAR BIOLOGISTS

The Departments of Pathology and Pharmacology are establishing a laboratory of molecular cardiovascular research and wish to recruit at least two molecular biologists to perform their research in this laboratory. The College of Physicians and Surgeons has many strong research groups in both molecular biology and basic cardiovascular research, thus providing a rich climate in which to develop a major research group bridging these two disciplines. The individuals involved in this laboratory would pursue independent research, and collaboration with existing programs would be encouraged strongly. Areas of interest relating to cardiac muscle are actin/myosin regulation, GTP regulatory proteins, and cloning of Na^+/K^+ channels and possibly Ca^{2+} channels. All qualified candidates willing to direct themselves to problems related to cardiovascular diseases will be considered. Salary and rank depend on the applicant's qualifications. Send curriculum vitae and names of at least three referees to: **John J. Fenoglio, Jr., M.D., Department of Pathology, 630 West 168 Street, New York, NY 10032. Columbia University is an Equal Opportunity Employer.**

POSITIONS OPEN

ASSOCIATE DEAN FOR RESEARCH EASTERN VIRGINIA MEDICAL SCHOOL

Nominations and applications are invited for the position of associate dean for research of the Eastern Virginia Medical School.

The Eastern Virginia Medical School is supported by both private and public funds and plans, develops, and implements programs in medical and health sciences education. It carries out its programs both directly and within a cooperative regional network of hospitals and universities.

The associate dean for research is responsible to the dean and provides administrative leadership for research in the Eastern Virginia Medical School, including its planning and development.

Maintains active research and serves as a role model and mentor to faculty. Responsibilities include promoting a vigorous research environment.

Qualified candidates must have a Ph.D. and/or M.D. degree with an outstanding record of research and a national reputation in biomedical sciences.

Candidates should submit curriculum vitae and names of three references by 1 July 1986, to:

Mark J. Rowe, Ph.D.
Chairman, Search Committee
Eastern Virginia Medical School
700 Olney Road
P.O. Box 1980
Norfolk, VA 23501

CELL BIOLOGY—IMMUNOLOGY

Applications invited for a tenure-track faculty position at the assistant professor level at the University of Pittsburgh. The position is offered jointly by the Pittsburgh Cancer Institute and the Department of Dermatology. Applicants should have a Ph.D. and two or more years of postdoctoral training. Candidates are sought with research interests and experience in cell culture techniques, immunology, and cell biology. The successful applicant will be expected to develop a vigorous research program related to cutaneous and immunology oncology, to participate in teaching graduate students, and to be active in the intellectual life of the Cancer Institute and the Department of Dermatology. Applicants should send complete curriculum vitae, brief description of previous research and teaching interests, a bibliography, and the names of at least two references to: **Ronald B. Herberman, M.D., Director, Pittsburgh Cancer Institute, 230 Lothrop Street, Pittsburgh, PA 15213.**

UNIVERSITY OF COLORADO HEALTH SCIENCES CENTER CELLULAR, MOLECULAR, DEVELOPMENTAL BIOLOGY

The Department of Cellular and Structural Biology is undergoing a major expansion under new leadership. Five **NEW FACULTY POSITIONS** will be filled. The goal is to establish a center of excellence in research on the regulation of eukaryotic growth and differentiation at the cellular and molecular levels. The primary interest will be in mechanistic aspects of growth and development rather than focusing on a specific cell system. Areas of particular interest include: the regulation of gene expression in eukaryotic development, transmembrane signaling, biosynthesis and structure of receptors, the function of second-messenger systems and oncogene products in cell growth and differentiation, cell-cell recognition, membrane-protein-cytoskeleton interactions. Candidates working on diverse cellular systems, including the nervous system, will be considered. Successful applicants are expected to establish an independent and productive research program and to participate in the department's teaching effort. Salary and academic rank will be commensurate with qualifications.

Investigators with a Ph.D. or M.D. degree and a research record indicating exceptional skills and high creativity are invited to apply. Applications including curriculum vitae, lists of publications and grant support, a one-page summary of research plans, and the names of at least three referees should be submitted to: **Dr. Karl H. Pfenninger, Professor and Chairman Designate, Department of Cellular and Structural Biology, University of Colorado School of Medicine, 4200 East Ninth Avenue, Denver, CO 80262.**

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

Neurophysiology Faculty Positions at Hahnemann University in Phila., PA

Applications are invited for two faculty positions in neurophysiology at the Associate Professor and/or Professor level. Requirements are an M.D. and/or Ph.D. degree; an established record of research; active participation in the neuroscience field as evidenced by extensive publications and both prior and current extramural research support.

Applicants will be expected to engage actively in the education and training of graduate students, postdoctoral fellows and medical students.

• The filling of these senior positions is regarded as the initial step in establishing a broad-based neuroscience program at Hahnemann University, encompassing both clinical and basic science investigators. Research teams are encouraged to apply.

All applications must be submitted by July 1, 1986. Interested applicants should send curriculum vitae, bibliography, and names of three references to:

Gian Carlo Salmoiraghi, M.D., Ph.D., Chairman,
Department of Physiology and Biophysics,



**HAHNEMANN
UNIVERSITY**
Mail Stop 409
Broad and Vine
Phila., PA 19102-1192

We're an Affirmative Action Employer

Research Associate

Environmental Health Risk/Policy Analyst—The M.I.T. Center for Technology, Policy and Industrial Development is seeking an environmental health scientist with wide interdisciplinary background and commitment to lead and participate in science-based policy analysis projects related to biotechnology and to occupational and environmental health. The successful applicant will have (1) a Ph.D. in chemistry, biology, biochemistry, molecular biology, bacteriology, genetics, biostatistics, or another allied discipline; (2) at least two years of relevant experience beyond Ph.D. using scientific information to illuminate public policy questions; (3) excellent writing skills; and (4) good quantitative modeling ability, and capability to analyze environmental health problems and data in terms of different technical and policy perspectives. The position is available as of July 1, 1986.

Please forward 2 copies of resume and cover letter to: MIT Personnel Office, E19-239, 77 Massachusetts Ave., Cambridge, MA 02139. Job number R86-941.

MIT is an equal
opportunity/
affirmative
action employer.

MIT

MOLECULAR / CELLULAR BIOLOGISTS M.S.-Ph.D.

Merck Sharp & Dohme Research Laboratories is currently offering several career opportunities for scientists to join our expanding department of Virus & Cell Biology. These new positions are part of our expanding research efforts in the fields of cancer biology, molecular oncology and mammalian cell transformation. Laboratory studies will include the regulation of oncogene and growth factor expression in mammalian cell culture systems, the enzymatic activities of oncogene products, and the role of growth factors in supporting cancer cell proliferation.

We envision a long term commitment to cancer research and we invite exceptional scientists at the Ph.D. and M.S. levels to join this exciting research program.

An excellent salary and a superb benefits program accompany these positions at our modern research facilities located in suburban Philadelphia, Pennsylvania. Reply in confidence to:

Mr. Jacques P. Kueny

**MERCK SHARP & DOHME
RESEARCH LABORATORIES**

West Point, PA 19486
EEO/AA/VH/EMPLOYER



MERCK & CO., INC.

NATIONAL INSTITUTES OF HEALTH, FELLOWSHIP IN BRAIN LIPID METABOLISM.

The Laboratory of Neurosciences, National Institute on Aging, National Institutes of Health, invites applications for a Staff Fellowship position to study brain lipid metabolism in relation to development and aging. Research opportunities include the 1) examination of incorporation of precursors of brain lipids in animals in vivo, using quantitative pharmacokinetic and autoradiographic techniques, 2) applying methods for subcellular and chemical fractionation of brain lipids, 3) examining intermediary brain lipid metabolism, 4) examining lipid composition of the human brain in relation to aging and Alzheimer's disease. The position is that of a Staff Fellow, Senior Staff Fellow or Medical Staff Fellow, with salary commensurate with qualifications. Appointments vary in duration from 2 to 7 years and are tenure-track. The position is located in Bethesda, Maryland, and is available October 1, 1986.

Applications are invited from qualified individuals having a Ph.D., M.D., or combined degrees, and pertinent research experience. NIH is an equal opportunity employer, and applications from women and minorities are invited. Interested candidates should submit their Curriculum Vitae to:

Dr. Stanley I. Rapoport, M.D., Chief
Laboratory of Neurosciences
National Institute on Aging
Building 10, Room 6C103
National Institutes of Health
Bethesda, Maryland 20892.

NIH IS AN EQUAL OPPORTUNITY EMPLOYER

POSITIONS OPEN

CELL BIOLOGIST—Institute for Environmental Medicine seeks Ph.D. or M.D. for tenure-track appointment as assistant professor at the University of Pennsylvania School of Medicine. Successful candidate will interact with respiratory physiologists and will develop an independent research program in respiratory cell biology. Scientists with interest in endocytosis, secretion, cell motility, or other fields of potential application to the respiratory system are encouraged to apply. Teaching duties will depend on qualifications of the successful candidate. Deadline for applications is 30 June 1986. Applicants should send curriculum vitae, statement of research interests, and names of three references to: **Aron B. Fisher, M.D., Director, Institute for Environmental Medicine, Chairman, Cell Biology Search Committee, University of Pennsylvania School of Medicine, Philadelphia, PA 19104-6068. The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.**

CHAIR MEDICAL SCHOOL CELL BIOLOGY ANATOMY DEPARTMENT

The University of Massachusetts Medical School is seeking a distinguished scientist and academic leader for the position of **PROFESSOR and CHAIR** of a Cell Biology/Anatomy Department with current research emphasis in cell biology and neurobiology. The successful candidate must demonstrate outstanding research and leadership ability, and will have the opportunity to develop a department which has significant growth potential. The institution is particularly interested in further developing strength in the areas of cell biology, developmental biology, or the neurosciences. The department is well-equipped for modern ultrastructural studies and has access to outstanding institutional core facilities such as those for tissue culture, fluorescence-activated cell sorting, DNA synthesis, protein sequencing, and peptide synthesis. Other basic science departments in the institution provide a stimulating environment conducive to contemporary scholarship in the biomedical sciences. The department chair will be responsible for promoting excellence in research and teaching, and for administering the financial resources in the department. Candidates may be nominated or may apply by sending a letter of interest, curriculum vitae, and names of three individuals to be contacted as references. Please address correspondence to: **Dr. Michael P. Czech, Search Committee, Department of Biochemistry, University of Massachusetts Medical School, Worcester, MA 01605.**

An Equal Opportunity/Affirmative Action Employer

CHAIRMAN DEPARTMENT OF MICROBIOLOGY LOYOLA UNIVERSITY— STRITCH SCHOOL OF MEDICINE

The Stritch School of Medicine, Loyola University of Chicago, invites applications and nominations for the position of chairman of the Department of Microbiology. The candidate should possess a Ph.D. or equivalent degree in microbiology, have an established and active research program, have a commitment to medical and graduate education, and have had previous administrative experience. Currently, the faculty of the department are pursuing research in: molecular biology; cellular immunology; prokaryotic and eukaryotic genetics; virology; immunochemistry; microbial physiology; pathogenic mechanisms; and mycology. Applicants should send their curriculum vitae and the names of three references by 15 July 1986 to: **Dr. John X. Thomas, Jr., Chairman, Search Committee for Microbiology, Stritch School of Medicine, Loyola University of Chicago, 2160 South First Avenue, Maywood, IL 60153. Loyola University of Chicago, Stritch School of Medicine is an Affirmative Action/Equal Opportunity Employer.**

FACULTY POSITIONS IN OCEANOGRAPHY. A Ph.D. degree in biological, chemical, geological, or physical oceanography is required. Successful applicants are expected to obtain funding from sources outside the university after the first year. Some teaching opportunities are available. Send a résumé and three references to: **Dr. Julian P. McCreary, Director, Nova University Oceanographic Center, 8000 North Ocean Drive, Dania, FL 33004. An Affirmative Action/Equal Opportunity Employer.**

POSITIONS OPEN

A COLONIAL WATERBIRD BIOLOGIST will be hired to supervise the Colonial Bird Register (CBR), to interact with field biologists, to improve the CBR database, and to perform research using the CBR database. M.S. or equivalent experience, field experience with colonial waterbirds, and good communication skills (written and oral) required. Must be willing to travel. Knowledge of computers and statistics useful. Position is fully funded for 1 year; individual expected to help fund future years by writing grant proposals. Apply by 9 May 1986 to: **Dr. Gregory S. Butcher, Cornell Laboratory of Ornithology, 159 Sapsucker Woods Road, Ithaca, NY 14850-1999.**

Cornell University is an Affirmative Action/Equal Opportunity Employer.

PUBLIC HEALTH CLINICAL LABORATORIES

The Minnesota Department of Health is seeking a **DIRECTOR** for the Clinical Laboratories, which have a \$1.1-million budget and a staff of 35 conducting analyses in the areas of environmental, water, and medical microbiology; mycobacteriology, virology, immunology, and genetic/metabolic diseases. Ph.D. required. Experience must include a minimum of 2 years of responsibility for laboratory evaluation and operations, research, fiscal management, and supervision. Significant opportunity for R&D.

Salary range is \$36,665 to \$49,277.

Send résumé to: **Russ Havar, Personnel Services, Minnesota Department of Health, 717 Delaware Street S.E., Minneapolis, MN 55440.**

PUBLIC HEALTH CHEMISTRY LABORATORIES

The Minnesota Department of Health is seeking a **DIRECTOR** for the Chemical Laboratories, which have a \$1.3-million budget and a staff of 35 conducting analyses in the areas of inorganic, organic, and radiation chemistry; biochemistry, toxicology, metals, industrial hygiene, air chemistry, and microparticulates. Ph.D. required. Experience must include a minimum of 2 years of responsibility for laboratory evaluations and operations, research, fiscal management, and supervision. Significant opportunity for R & D.

Salary range is \$36,665 to \$49,277.

Send résumé to: **Russ Havar, Personnel Services, Minnesota Department of Health, 717 Delaware Street S.E., Minneapolis, MN 55440.**

UNIVERSITY OF PENNSYLVANIA FACULTY POSITION

Applications are invited for a **postdoctoral fellow** appointment in the Department of Dermatology. The candidate must have a Ph.D. in an area of immunology and have skills and interest in the following areas: (i) immunologic methods for study of cell growth and differentiation in normal and neoplastic cells; (ii) lymphocyte interactions and homing patterns in skin; (iii) lymphocyte products and mediators; and (iv) generation of hybridomas and monoclonal antibodies. Salary negotiable. Send detailed résumé and list of three references to: **Brian V. Jegasothy, M.D., Professor and Vice-Chairman, Department of Dermatology, University of Pennsylvania, 329 Medical Education Building, 36th and Hamilton Walk, Philadelphia, PA 19104-6065.**

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

The Laboratory of Ornithology at Cornell University is seeking candidates for a **SENIOR RESEARCH ASSOCIATE** to establish a center for the analysis and synthesis of biologically significant sound, including human speech and music. Three-year position, continuation contingent on availability of funds. Ph.D. or equivalent professional degree. Experience in computer-based sound analysis and demonstrated research ability, as well as excellent communicative skills required. Submit cover letter, curriculum vitae, relevant reprints, and names of three references to: **Jane Hance Wood, Executive Staff Assistant, Laboratory of Ornithology, 159 Sapsucker Woods Road, Ithaca, NY 14850.** Applications will be reviewed starting 1 September 1986, and continued until a suitable candidate is found.

Cornell University is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

DEAN, SCHOOL OF AGRICULTURE OF SOUTHERN ILLINOIS UNIVERSITY AT CARBONDALE (SIU-C). Southern Illinois University at Carbondale invites nominations and applications for the position of dean of the School of Agriculture. The school is comprised of 51 faculty in the Departments of Agribusiness Economics, Agricultural Education and Mechanization, Animal Industries (including Food and Nutrition), Forestry, and Plant and Soil Science. Current enrollment is 810 undergraduate and graduate students. The dean is responsible for providing effective academic, administrative, and fiscal leadership for the school. The successful candidate will possess an earned doctoral degree, have a distinguished record of teaching and scholarship commensurate with the appointment to rank of professor in one of the school's departments, and exhibit abilities to advocate effectively on behalf of the school. A record of administrative and budgetary experience coupled with successful interdisciplinary activities is desirable. The position is available 15 August 1986; completed applications received by 31 May 1986 will have full consideration. Complete applications include a letter of interest, a current curriculum vitae, three current letters of reference, and transcripts. Applicants should arrange to have letters of reference directly sent. Nominations, inquiries, and applications should be sent to: **Dr. Paul Yambert, Chair Search Committee for Dean of Agriculture, c/o Vice President for Academic Affairs and Research Southern Illinois University Carbondale, Illinois 62901. SIU-C is an Affirmative Action/Equal Opportunity Employer.**

FACULTY POSITIONS IN MOLECULAR GENETICS

The Department of Microbiology and Molecular Genetics at the University of Cincinnati College of Medicine is searching for several individuals to fill tenure-track positions. Applicants should be applying molecular approaches to immunology, microbial pathogenesis, virology, or developmental or oncogene biology. Applicants should submit their curriculum vitae and a summary of research accomplishments and future research plans, along with the names of three scientists willing to write letters of recommendation, to: **Search Committee, Department of Microbiology and Molecular Genetics, University of Cincinnati College of Medicine, Cincinnati, OH 45267-0524. The University of Cincinnati is an Equal Opportunity/Affirmative Action Employer.**

FOREST ECOSYSTEM ANALYSIS FOREST BIOLOGY (TWO)

Applications are invited for two half-time, 12-month, tenure-track appointments beginning 1 October 1986. Successful applicants will be expected to generate further salary through research programs. A Ph.D. degree is required for both positions.

The first position is offered at the full professor level. Candidates must have a strong background in team research efforts in forest ecosystem analysis. The second position is at assistant or associate professor level and candidates should have experience in belowground processes, particularly plant-soil interactions. Successful applicants at both levels will teach graduate courses in ecosystem analysis.

Please send curriculum vitae, statement of research and teaching interests, and the names of three or more references by 1 May 1986 to: **Dr. Robert L. Edmonds, College of Forest Resources AR-10, University of Washington, Seattle, WA 98195. The University of Washington is an Equal Opportunity Employer. Women and minorities are urged to apply.**

GENETICIST

CONCORDIA COLLEGE, MOORHEAD, MINNESOTA, invites applications for a possible tenure-track position in the Biology Department at the rank of instructor or assistant professor beginning August 1986. Ph.D. is preferred. Successful applicant expected to teach genetics, embryology, and introductory biology courses. Emphasis on teaching, however, research involving undergraduates is desirable. Concordia College is a coeducational liberal arts college affiliated with the American Lutheran Church. Submit letter of application, résumé, statement of teaching and research goals, and three letters of recommendation by 25 May 1986 to: **Dr. Ivan M. Johnson, Department of Biology, Concordia College, Moorhead, MN 56560.**

Concordia College is an Equal Opportunity Employer.

INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

Unit of Descriptive Epidemiology

Applications are invited for the post of:

EPIDEMIOLOGIST

The IARC is the cancer research organization of the WHO, and conducts a broad range of studies in the fields of cancer cause and prevention. There are a large number of epidemiological projects in collaboration with investigators throughout the world, and an extensive experimental programme. The Unit of Descriptive Epidemiology is primarily concerned with monitoring and surveillance of cancer incidence and mortality worldwide, both for developing aetiological hypotheses, and for the planning and evaluation of cancer control measures. The incumbent will be expected to assist in the acquisition of data on cancer incidence and mortality and its analysis in terms of trends and differentials. This involves the establishment of contacts with researchers throughout the world, and the coordination of collaborative projects. Development of new fields of research within the framework of the Unit's overall programme is encouraged.

The applicants should have a post-graduate degree or equivalent in epidemiology/public health or in biostatistics, at least 5 years post-doctoral experience and demonstrated ability to conduct research in the epidemiology of non-infectious disease. Expertise in computing, and experience in cancer epidemiology are both considered advantages.

Salary level is US\$30,275 plus a post adjustment element which is currently US\$9,854 p.a. for a staff member without dependents, and US\$32,605 plus post adjustment of US\$10,612 for a staff member with dependents. Salaries are net of tax.

A recruitment is expected in the second half of 1986 for an initial period of 2 years, with possibility of renewal. Those interested should write for further particulars and application forms, enclosing a brief résumé, to:

Personnel Office
IARC
150 cours Albert Thomas
69372 Lyon Cédex 08
France

Scientist/ Sr. Scientist

Molecular Regulation of Inflammation

The Department of Molecular Biology at Genentech, Inc., a leader in the field of biotechnology, invites applications from individuals with a strong record of research accomplishment in the area of cellular and humoral regulation of inflammation for the position of Scientist/Sr. Scientist.

This individual will be responsible for establishing an independent research program on chemotactic factors, complement or mediators of anaphylaxis and interact with other members of the department in developing novel therapeutic approaches to the treatment of inflammation. Candidates should have at least 4 years research experience beyond their PhD/MD.

Genentech offers a competitive salary and benefits package. Please send resume, including curriculum vitae, a brief summary of research interest and names of 3 references, to Human Resources Dept. #1302, Genentech, Inc., 460 Pt. San Bruno Blvd., South San Francisco, CA 94080. An equal opportunity employer.



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American Red Cross

BIOMEDICAL RESEARCH + DEVELOPMENT

LABORATORY HEADS IMMUNOLOGY AND VIROLOGY

In a major expansion of its biomedical research program, the American Red Cross seeks distinguished investigators to head new immunology and virology laboratories. These individuals will have the opportunity to establish 6-8 scientist groups in a new facility being constructed for research and development programs that support Red Cross blood and transplantation services. Candidates should have a distinguished research record as evidenced by publications and grant awards, and they must have leadership and administrative ability necessary to build nationally recognized departments. It is anticipated that the positions will be filled by January 1, 1987.

Applications, including curriculum vitae, bibliography, and the names and addresses of at least 3 references should be sent to:

Leon W. Hoyer, M.D.
American Red Cross Laboratories
9312 Old Georgetown Road
Bethesda, MD 20814

PhD Molecular Biologists and Biochemists

Merck Sharp & Dohme Research Laboratories' expanding long-term commitment to molecular biology has created a number of exceptional career opportunities. We are currently seeking several Molecular Biologists and Biochemists who will participate in multidisciplinary programs dealing with the molecular cloning, expression and analysis of a variety of eukaryotic and prokaryotic proteins. Projects will be collaborative efforts whose goals are the identification, isolation, and characterization of proteins of therapeutic, pharmacologic, or process development interest.

Collaborations with several research departments will offer the opportunity for high visibility and career growth. We encourage broad interactions with the scientific community through collaborations, publications, and presentations at major scientific conferences.

Group Leaders- These positions require a Ph.D. in the Biological Sciences or the equivalent with at least 3 years of postdoctoral research experience involving cDNA cloning, expression vectorology, serology, and protein purification. Breadth of training and a publication record which demonstrates creativity and independence are more important than the specific areas of expertise. Experience in directing other scientists, a high degree of self-motivation, demonstrated communication skills, and the ability to work as part of a large team are essential.

Postdoctoral Scientists- These positions require a Ph.D. in the Biological Sciences or the equivalent with 0-2 years of postdoctoral research experience involving cDNA cloning, DNA sequencing, protein purification and analysis, and the growth of prokaryotic and eukaryotic cells. A high degree of self-motivation, the ability to work as part of a large team, and technical innovation are essential.

An attractive salary and benefits program accompany these positions at our modern and spacious laboratories located at our largest research facility in **Rahway, New Jersey**. In confidence, please send your resume, three professional references whom we may contact, and salary requirement to: **Mr. Jacques P. Kueny, MERCK SHARP & DOHME RESEARCH LABORATORIES, West Point, PA 19486. EEO/AA/VH/Employer.**



MERCK & CO., INC

POSITIONS OPEN

FACULTY POSITION PHYSIOLOGY/ BIOPHYSICS

The Department of Physiology and Biophysics at Wright State University (WSU) School of Medicine and College of Science and Engineering invites applications for a tenure-track assistant professor position in cellular and molecular physiology and biophysics, including endocrine/metabolic regulation of ion transport across excitable and non-excitable membranes, synaptosomal transport, and membrane control of intracellular processes and intercellular communications. Applicants should have a Ph.D. in physiology and biophysics or related field with at least 2 years of postdoctoral experience and be committed to develop or continue a first-rate active research program. Primary teaching responsibilities are in physiology and biophysics in the School of Medicine and/or in physiology and biophysics in the biomedical sciences Ph.D. program. Compensation commensurate with professional experience and standards of WSU.

Applicants should submit their curriculum vitae, a brief statement on future plans, and the names of three references to: **Dr. P. K. Lauf, Professor and Chair, Department of Physiology and Biophysics, Wright State University School of Medicine, P.O. Box 927, Dayton, OH 45401.** Applications must be received by 1 June 1986 to be considered. *Wright State University is an Equal Opportunity/Affirmative Action Employer.*

IMMUNOLOGIST/GENETICIST: Small, newly established company engaged in biomedical laboratory services and manufacture and distribution of diagnostic reagents is seeking a Ph.D. with training in genetics and immunology to guide laboratory operations, review and approve test results, and direct R&D activities. Consultation readily available from internationally recognized scientists affiliated with company. Midwest location. Competitive salary and opportunity to share in future growth of company. *An Equal Opportunity Employer.* Send curriculum vitae and other information to: **Box 77, SCIENCE.**

INSTRUCTOR TO ASSOCIATE PROFESSOR

The Department of Pathology, University of Medicine and Dentistry of New Jersey-Rutgers Medical School, has openings for faculty members in the area of immunopathology and/or immunogenetics to participate in the expanding diagnostic activities of the University Diagnostic Laboratories. M.D. or Ph.D. required with several years of postdoctoral training and demonstrated competence in diagnostic and/or research activity. Rank commensurate with previous experience. Send curriculum vitae to: **Robert L. Trestad, M.D., Chairman, Department of Pathology, UMDNJ-Rutgers Medical School, P.O. Box 101, Piscataway, NJ 08854.** *An Equal Opportunity/Affirmative Action Employer, M/F/H/V.*

INSTRUCTOR/ASSISTANT PROFESSOR THE ANN ARBOR VETERAN'S ADMINISTRATION HOSPITAL

The University of Michigan Medical School, Department of Pathology, is seeking a pathology (Board-certified or -eligible in both anatomic and clinical pathology) for an academic position that will involve responsibility for service activities, especially in the clinical laboratories. There will be opportunities for teaching related to medical students and residents. There will also be opportunities to become involved in research activities related to immunopathology. Appointment in this position at the Veteran's Administration Medical Center carries a full academic title in the Department of Pathology at the University of Michigan Medical School. Candidates should contact:

Peter A. Ward, M.D.
Department of Pathology
The University of Michigan Medical School
1315 Catherine Road
M5240 Medical Science I
Ann Arbor, Michigan 48109-0602
Telephone: 313-763-6384

or

Lee A. Weatherbee, M.D.
Department of Pathology
The Veteran's Administration Medical Center
2215 Fuller Road
Ann Arbor, Michigan 48105
Telephone: 313-769-7100, extension 357

POSITIONS OPEN

IMMUNOLOGIST Assistant/Associate Professor

Applications are invited for a tenure-track position in the Department of Microbiology, College of Medicine, University of Saskatchewan, Saskatoon, Saskatchewan. Applicant should have a Ph.D. or M.D. degree with an active research program in immunology, preferably cellular immunology.

The department has undergraduate teaching responsibilities in the health sciences (medicine, dentistry, nursing, pharmacy) and the College of Arts and Sciences. The department offers a graduate degree program at the M.Sc. and Ph.D. level, and the applicant will be expected to participate in training of graduate students.

The faculty of the Department of Microbiology in the College of Medicine includes basic science microbiologists, virologists, and immunologists, as well as medical microbiologists and infectious disease physicians. There are presently 13 faculty in the department. There is an opportunity to supervise and develop the Department of Clinical Microbiology Immunology Section within the Department of Clinical Microbiology in the university hospital, but acceptance of this responsibility is not a requirement for this position. The Department of Clinical Microbiology within the university hospital incorporates sections of bacteriology, virology, immunology, and infection control. It has a staff of 42, including 6 with teaching responsibilities in the university.

Send curriculum vitae and names of three references and description of research interest by 1 June 1986 to: **William L. Albritton, M.D., Ph.D., Head, Department of Microbiology, University of Saskatchewan, Saskatoon, Saskatchewan, Canada S7N 0W0.**

Preference will be given to Canadians and landed immigrants.

LABORATORY DIRECTOR MOLECULAR GENETICS

BioGrowth, a recently organized and funded biotechnology company needs a dynamic laboratory director to build and direct a molecular genetics team. The successful applicant will be involved in cloning and developing expression systems for a wide range of proteins. Additionally, this person will have the opportunity to recruit and build a strong team of professionals that will be an important factor in the success of this new company.

An in-depth technical knowledge of state-of-the-art cloning and expression system development is required. The qualified candidate will have a Ph.D. from a leading university, and applicable postdoctoral experience, as well as demonstrated managerial accomplishment. Industrial management and/or start up experience is a plus.

We offer excellent salary and benefits. For confidential consideration, send your résumé, salary requirements, a letter describing your qualifications, and the names of three references to: **Vice President and Technical Director, BioGrowth Inc., 505 Ortega Street, San Francisco, CA 94122.**

MCGILL UNIVERSITY INSTITUTE OF PARASITOLOGY MOLECULAR BIOLOGIST

Applications are invited for a tenure-track position at the **assistant professor** or **base of associate professor** level for appointment in fall 1986. The institute is involved in research and the teaching of graduate students. Many of the life sciences disciplines are being applied to problems in human and animal parasitology. A molecular biologist with experience in mounting gene libraries, DNA recombination, cloning, and gene expression is required. Previous experience with parasites is not necessary, but a willingness to undertake research on the molecular biology of parasitic helminths or protozoa is essential. The successful applicant will be expected to collaborate with parasitologists, immunologists, and biochemists. *In accordance with Canadian immigration requirements, preference will be given to Canadian citizens and permanent residents.* Applications, including the names of three referees, should be received by 15 May 1986, or until the position is filled, and should be addressed to: **Dr. Roger K. Prichard, Director, Institute of Parasitology, Macdonald College, McGill University, 21,111 Lakeshore Road, Ste-Anne de Bellevue, Quebec, Canada H9X 1C0.**

ADVERTISEMENT

Faculty Positions University of North Carolina at Chapel Hill Department of Psychiatry

The Department of Psychiatry is expanding its staff and research facilities under the direction of a new Chair, and is seeking academic faculty for non-tenure and tenure-track positions at the Assistant/Associate Professor levels. Although the levels of appointment and area of specialization are open, preference will be given to those individuals with interest in the biological basis of mental disorders, particularly schizophrenic, affective, anxiety, substance abuse, and sleep disorders.

DESCRIPTION: Responsibilities will include patient care in both inpatient and outpatient settings and associated research, as well as teaching and training of medical students and residents.

QUALIFICATIONS: Candidates should have an M.D. degree, board certification/eligibility in Psychiatry, a commitment to excellence in teaching and research, and the ability to establish a strong research program with external funding. Preference for tenure-track positions will be given to candidates that have 1) teaching experience, 2) publications, and 3) a significant potential for, or a proven record of extramural funding.

Deadline for application is **June 30, 1986.** Starting date negotiable. Curriculum Vitae, a brief description of experience in teaching and research, or statement of research interests, should be submitted to: **David S. Janowsky, M.D., Professor and Chair, Department of Psychiatry, University of NC, Chapel Hill, NC 27514.** The University of NC is an **EQUAL OPPORTUNITY/AFFIRMATIVE ACTION** employer, and women and minorities are encouraged to voluntarily identify themselves.

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

DEPARTMENT OF PSYCHIATRY

The Department of Psychiatry is expanding its staff and research facilities under a new Chair, and invites applications for a tenure track or tenured position at the Associate or Full Professor level.

Responsibilities would include conducting basic laboratory research in areas of biochemical and molecular neuropharmacology with particular emphasis on relation to clinically useful drugs. Research directions should be relevant to both biological psychiatry and developmental neurobiology. Participation in training of medical students and residents through formal didactic mechanisms (i.e., courses, seminars), and also through brief internships. Active collaboration in present or future clinical research in the areas of psychopharmacology and/or biological psychiatry. Interaction with basic and clinical faculty to ensure integration of new technology and theoretical concepts into the research and patient care activities of this Department.

Qualifications: M.D. and/or Ph.D. degree. Experience in biochemical and/or molecular mechanisms of psychotropic drug action; demonstrated ability to relate basic neuroscience to clinical psychopharmacology; proven research ability as demonstrated by peer reviewed publications; independent extra-mural basic and/or clinical research funding; the ability to work well within multidisciplinary research programs; demonstrated competence in teaching and training.

Deadline for application is May 31, 1986. Starting date of appointment is negotiable. Curriculum Vitae, a brief description of experience in teaching and research, or statement of research interests should be submitted to: **Judy Perry, Director of Administration, Department of Psychiatry, Rm. 229, Wing B, Med School, University of NC, Chapel Hill, NC 27514.**

The University of NC is an **EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER** and women and minorities are encouraged to voluntarily identify themselves.

AUSTRALIA

CSIRO

**RESEARCH FELLOW
MOLECULAR BIOLOGIST/PLANT VIROLOGIST
A\$27,475-A\$40,410
DIVISION OF HORTICULTURAL RESEARCH
ADELAIDE SA**

GENERAL: The aim of the Division's research is the improvement of horticultural crops in Australia. The Division undertakes applied and basic research on a range of perennial horticultural plants (deciduous and evergreen) from both temperate and sub-tropical regions. Emphasis is placed upon the development of new techniques for the selection and breeding of improved plant types and on understanding the complex interaction between plant performance and the environment.

LOCATION: The Division has laboratories at Adelaide, South Australia (Headquarters), Merbein (Victoria) and Darwin (Northern Territory). The appointee will be located at Adelaide.

The virology group is developing research in two areas:

- Characterisation of viroid and virus-like diseases of horticultural crops, aimed at the study of their genome structure and the development of nucleic acid probes.
- Manipulation of plant genomes for generating virus resistant lines using a Ti transformation system

The group has collaboration with virologists at the University of Adelaide and Adelaide University Centre for Gene Technology.

DUTIES: As a member of the Virology Group, undertake collaborative research in the characterisation of disease specific nucleic acids and the cloning of viral sequences.

QUALIFICATIONS: A PhD degree or equivalent qualifications in an appropriate field such as molecular biology or virology with experience in the application of recombinant DNA techniques.

TENURE: A term of three years, with the possibility of a further term. Australian Government superannuation benefits available.

APPLICATIONS: Stating relevant personal particulars, including details of qualifications and experience, the names of at least two referees and quoting reference No A2946, should be directed to:

**The Chief
CSIRO Division of Horticultural Research
GPO Box 350
ADELAIDE SA 5001**

by 4 weeks from date of publication

CSIRO IS AN EQUAL OPPORTUNITY EMPLOYER

SENIOR RESEARCHER IN BIOCHEMICAL ENGINEERING

Idaho National Engineering Laboratory, Idaho Falls, Idaho

Background to include Ph.D. level credentials in biochemical, chemical engineering, microbiology or biochemistry. Ten years research experience in microbial or biochemical process engineering including emphasis on kinetics, stoichiometry and mass transfer. A good publication record will be taken as evidence of technical competence and productivity.

Role will be technical leader in expanding government and industry supported biochemical engineering research activities at the INEL Bioprocessing Center. Responsibilities include development of scaleup processes utilizing microbes or biomolecules for processing ore, coal and/or industrial effluent streams. Current work direction is in the mineral, fossil fuel, food, agricultural and waste products processing areas. New laboratories and modern equipment have recently been placed in use.

If you would like to work in a challenging, high technology environment, please send your resume in confidence to: **Salary and Staffing Services, (HD-109), EG&G Idaho, Inc., P.O. Box 1625, Idaho Falls, Idaho 83415.** We are an equal opportunity employer M/F/H/V. U.S. Citizenship required.



AIDS PROGRAM

CENTER FOR INFECTIOUS DISEASES CENTERS FOR DISEASE CONTROL

The AIDS program at CDC is accepting applications for the following positions:

VIRAL IMMUNOLOGIST

The successful candidate will join a vigorous research group and will be expected to originate and conduct research directed toward an understanding of the pathogenesis, immunology, and host responses of human T-lymphotropic virus type III/lymphadenopathy-associated virus, HTLV-III/LAV. An interest and demonstrated competence in viral immunology and hybridoma technology, in particular, production of human monoclonal antibodies is required. A Ph.D. with 2 or more years of postdoctoral experience in a relevant field is preferred. Other desirable qualities include an interest in applying advanced molecular immunology to viral diseases and an ability to work cooperatively in a multidisciplinary group setting. Salary negotiable and will depend on experience and qualifications.

POSTDOCTORAL POSITIONS

Three postdoctoral positions to study the pathogenesis, structure, immunology, and genetics of human T-lymphotropic virus type III/lymphadenopathy-associated virus (HTLV-III/LAV) and AIDS.

Applicants should have a strong background in (a) recombinant DNA and gene expression techniques in eukaryotic and/or prokaryotic systems, and knowledge of DNA sequencing techniques; or (b) viral immunology and hybridoma techniques, including production of human monoclonal antibodies. Salary range of \$26,381 to \$31,619 depending on experience and qualifications.

Please indicate position applying for, send a curriculum vitae, the names of three references, and a brief summary of research accomplishments within six weeks of announcement to:

**Mr. William R. Hudson
Personnel Management Office
Centers for Disease Control
Building 1, Room 1051
1600 Clifton Road
Atlanta, Georgia 30333.**

For additional scientific information and discussion of the positions contact:

**Dr. Gerald Schochetman
Assistant Director for
Laboratory Sciences
AIDS Program
Building 7, Room 240
Centers for Disease Control
1600 Clifton Road
Atlanta, GA 30333**

An equal opportunity employer.

POSITIONS OPEN

UNIVERSITY OF HONG KONG LECTURER IN THE RADIOISOTOPE UNIT

Applications are invited for a lectureship in the Radioisotope Unit. Applicants should have an appropriate higher degree and special interest and postgraduate experience in the application of radioisotopes in physical and environmental sciences. The appointee will be required to share in teaching radioisotope methodology at both undergraduate and postgraduate levels.

Annual salary (superannuable) is on an 11-point scale: HK\$160,980 to 269,100 (US\$1=HK\$7.80 as at 3 March 1986). Starting salary will depend on qualifications and experience. At current rates, salaries tax will not exceed 17 percent of gross income. Housing benefits at a rental of 7½ percent of salary, children's education allowances, leave, and medical benefits are provided.

Further particulars and application forms may be obtained from: **The Secretary General, Association of Commonwealth Universities (Appointments), 36 Gordon Square, London, England WC1H 0PF**, or from: **The Appointments Unit, Secretary's Office, University of Hong Kong, Hong Kong**. Closes 30 May 1986.

UNIVERSITY OF OXFORD/UNIVERSITY LECTURESHIP in Neuroscience/In Association with Somerville and Balliol College: Applications are invited for the above post tenable from 1 January 1987. Candidates should have carried out research in neuroscience, with competence in neuroscience and cell structure. Stipend according to age on the scale (converting in American dollars presently to) \$11,228 to \$23,464. The successful candidate may be offered a tutorial fellowship at Somerville College, the statutes of which provide that all fellows shall be women, or, if a man is appointed, at Balliol College. Further details may be obtained from: **Professor R. W. Guillery, Department of Human Anatomy, South Parks Road, Oxford, England OX1 3QX**, to whom applications (nine typed copies, or one from overseas applicants) with a full curriculum vitae, summary of research interests, and the names of three references should be sent by 30 June 1986.

MATHEMATICAL GEOSCIENTIST WRIGHT STATE UNIVERSITY

The Department of Geological Sciences invites applications for a tenure-track position at the level of assistant or associate professor from individuals with primary expertise within the broad field of quantitative geology. The individual should have a strong mathematical and computer background and an interest in the application of numerical modeling to geophysical and/or geohydrological problems. The individual should also anticipate the development of courses dealing with the application of mathematics and mathematical modeling to geoscience problems. The applicant's specific field of research interest is open; however, he or she would be welcome to participate in current research programs. The position will be available September 1986 and will be filled as soon as possible after that date. Candidates are expected to have completed all requirements for the Ph.D. at the time of initial employment.

The department currently has 12 full-time faculty and a strong M.S. program in geology, with concentration on exploration geophysics and applied geohydrology. Departmental computer facilities, analytical instrumentation, and field equipment to support research are outstanding. The new position is funded by an academic challenge grant that recognizes the excellence of our graduate program.

Send résumé and three letters of reference to: **Dr. Byron Kulander, Chairman, Search Committee, Department of Geological Sciences, 260 Brehm Laboratory, Wright State University, Dayton, Ohio 45435**.

Closing date for applications is 7 May 1986. *Wright State University is an Equal Opportunity/Affirmative Action Employer.*

MOLECULAR BIOLOGY RESEARCH POSITION, Ph.D. academic research position as assistant research molecular biologist with immunology research group. Demonstrated research accomplishments, 2 years of postgraduate work, and established bibliography required. Reply to: **Dr. Martin Kagnoff, Department of Medicine, M-023D, University of California, San Diego (UCSD), La Jolla, CA 92093**, by 30 May 1986. Salary set within UCSD research series salary scale. *UCSD is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

MICROBIAL ECOLOGIST

The Chesapeake Biological Laboratory of the University of Maryland's Center for Environmental and Estuarine Studies invites applications for a tenure-track faculty position in marine microbial ecology. Experience and proven research ability is required in the field of microbially mediated nitrogen cycling and transformations in marine sediments and groundwaters.

The applicant should be willing to teach in the university's Graduate Program. Rank and salary will be commensurate with qualifications with a starting date in early 1987.

Send résumé, a statement of research interests, and the names and addresses of at least five references to:

**Dr. Rodger Dawson
Chair, Search Committee
Chesapeake Biological Laboratory
P.O. Box 38
Solomons, MD 20688**

Applications received before 16 May 1986 will be assured consideration. *The University of Maryland is an Affirmative Action/Equal Opportunity Employer.*

MOLECULAR BIOLOGIST

Calgene, a leader in the application of modern genetic technology to agriculture, is recruiting a Ph.D. molecular biologist. Strong candidates will have two or more years of postdoctoral research, a good record of publications and scientific achievements, with extensive experience in the manipulation of nucleic acids. Previous experience of particular interest is the isolation and characterization of genes from plants or animals. The applicant hired will join a strong multidisciplinary team working on improvement of crop plants. Our scientists enjoy a unique research environment that encourages excellence and interaction within the company and with academic researchers. This, together with a liberal publication policy, makes us an attractive option for pursuing a scientific career in the industry. We are located in a pleasant university town, very close to the San Francisco Bay Area. Enquiries and applications, including the names of three references, should be sent to: **Calgene, Inc. File number 765, 1920 Fifth Street, Davis, CA 95616**. *An Equal Opportunity Employer.*

TEMPLE UNIVERSITY DEPARTMENT OF BIOLOGY MOLECULAR BIOLOGY—GENETICS

The Department of Biology is expanding its program in molecular biology and genetics. We invite applications for a tenure-track academic appointment at the assistant professor level to begin either 1 July 1986 or 1 January 1987. The successful candidate will also hold an appointment in the University's Institute of Molecular Biology and Genetics. Preference will be given to applicants whose research programs are in immunology, developmental biology, cell biology, or neurobiology. The appointee is expected to maintain an independent research program and to contribute to graduate and undergraduate education and training in his/her area of specialization. All candidates are expected to have postdoctoral experience. Applicants should send curriculum vitae, representative publications, a summary of their previous and proposed research, and the names and addresses of three references to:

**Dr. Nina W. Hillman
Department of Biology 015-00
Temple University
Philadelphia, PA 19122**

Closing Date: 31 May 1986. Applications will be reviewed upon receipt. *Temple University is an Equal Opportunity/Affirmative Action Employer.*

NEUROENDOCRINOLOGY POSTDOCTORALS

Two positions are available to study brain control of the development, growth, and maintenance of the structure and function of the anterior pituitary gland via a multidisciplinary approach. Salaries are competitive. Send curriculum vitae and names and addresses of three references to:

**Dr. Charles A. Blake
Department of Anatomy
University of South Carolina
School of Medicine
Columbia, SC 29208**

An Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

MOLECULAR BIOLOGISTS

Tenure-track faculty positions are available 1 July 1986 or 1987 at the assistant, associate, or full professor level for individuals with a doctorate degree and a strong background in molecular biology. Applicants must have a strong potential to develop an externally funded research program or current support. Salaries are highly competitive. Interested individuals should submit curriculum vitae, names and addresses of three references, a brief outline of research plans, and a brief summary of past research to:

**Dr. Charles A. Blake
Department of Anatomy
University of South Carolina
School of Medicine
Columbia, SC 29208**

An Equal Opportunity/Affirmative Action Employer.

MOLECULAR BIOLOGY—PROTEIN BIOCHEMISTRY—PROKARYOTIC GENETICS.

Two tenure-track, 12-month positions. The University of Idaho is expanding its research effort in molecular biology and biotechnology through the Institute for Molecular and Agricultural Genetic Engineering (IMAGE) and by construction of new research facilities. Candidates should show outstanding potential for research in areas which can include (but are not limited to) the following. Position (i)—assistant professor (**molecular biology/prokaryotic genetics**): genetic engineering of bacteria, development of improved cloning vectors, gene regulation in prokaryotes, molecular genetics applied to biotechnology. Position (ii)—assistant professor (associate professor possible) (**molecular biology/protein biochemistry**): use of recombinant DNA technologies in the manipulation of protein structure and function, protein engineering, in vitro mutagenesis, and molecular approaches to the study of protein biochemistry. Postdoctoral experience is required. Positions will be approximately 25 percent teaching and 75 percent research with an appointment in the Department of Bacteriology and Biochemistry and the Idaho Agricultural Experiment Station. Deadline: 30 May 1986, or until suitable candidates are found. Send curriculum vitae, brief statement of research interests, and names of three references to: **Dr. Don L. Crawford, Chair Search Committee, Department of Bacteriology and Biochemistry, University of Idaho, Moscow, Idaho 83843**. *The University of Idaho is an Equal Opportunity/Affirmative Action Employer and educational institution.*

The Australian National University invites applications from suitably qualified women and men for appointment to the following position: **POSTDOCTORAL FELLOW/RESEARCH FELLOW/SENIOR RESEARCH FELLOW IN OPTICS AND/OR VISION, DEPARTMENT OF APPLIED MATHEMATICS, RESEARCH SCHOOL OF PHYSICAL SCIENCES**. The Optics Group (Head: **Professor A. W. Snyder, FAA**) is part of the Department of Applied Mathematics and includes researchers with backgrounds in applied mathematics, physics, and electrical engineering. One area of interest addresses theoretical problems of light propagation through optical waveguides and devices. There is an active collaboration with Australian Optical Fibre (research) Pty. Ltd.—a Canberra company headed by **Dr. S. C. Rashleigh**—and Telecom Australia. A second area of interest is visual information processing, particularly in relation to animal and machine vision, which involves collaboration with the vision community within the university. Closing date: 30 June 1986. Reference: PS.25.3.2. Salary will be in accordance with qualifications and experience within the range: postdoctoral fellow grade 1 (at a fixed point) \$23,473 to \$26,889 per annum; research fellow \$27,233 to \$35,777 per annum; senior research fellow \$38,042 to \$45,376 per annum. Appointment, unless otherwise stated, will be: senior research fellow/research fellow normally up to 3 years, with the possibility of extension to maximum of 5 years; postdoctoral fellow normally 2 years, with the possibility of extension to maximum of 3 years. Grants toward travel, assistance with housing, superannuation. Maternity leave is available. The university reserves the right not to make an appointment or to make an appointment by invitation at any time. Applicants should quote the reference number when submitting applications to: **R. V. Dubs, Registrar, GPO Box 4, Canberra, ACT, 2601 Australia**. *The University is an Equal Opportunity Employer.*

AUSTRALIA CSIRO

RESEARCH FELLOW
CELL BIOLOGIST
A\$27,475-A\$40,410
DIVISION OF HORTICULTURAL RESEARCH
ADELAIDE SA

GENERAL: The aim of the Division's research is the improvement of woody perennial horticultural crops in Australia. These include a range of deciduous and evergreen species. Emphasis is placed upon the development of new techniques for the selection and breeding of improved plant types and on understanding the complex interaction between plant performance and the environment. The Division is using recombinant DNA facilities in investigating the interaction of plastid and nuclear DNA.

LOCATION: The Division has laboratories at Adelaide, South Australia (Headquarters), Merbein (Victoria) and Darwin (Northern Territory). The appointee will be located at Adelaide.

DUTIES: To undertake a program of research concerned with the replication of chloroplasts and chloroplast DNA in higher plants.

QUALIFICATIONS: A PhD degree or equivalent qualifications in botany, biology, plant physiology or biochemistry. Specialised training in electron microscopy, freeze fracturing, audio-radiography, microspectrophotometry and/or DNA technologies would be an advantage.

TENURE: A term of three years, with the possibility of a further term. Australian Government superannuation benefits available.

APPLICATIONS: Stating relevant personal particulars, including details of qualifications and experience, the names of at least two referees and quoting reference No A2955, should be directed to:

The Chief
CSIRO Division of Horticultural Research
GPO Box 350
ADELAIDE SA 5001

by 4 weeks from date of publication

CSIRO IS AN EQUAL OPPORTUNITY EMPLOYER



Molecular Biologist

Applied Biosystems, Inc. has an immediate opening for a molecular biologist to develop new instrument-reagent systems. Broad experience with the manipulation of DNA and RNA and some experience with instrumentation is desirable. We seek someone who understands the basis of current techniques and wants to develop more efficient and useful methods. A Ph.D. or equivalent with postdoctoral experience is desired. More important, however, is finding a person with a high degree of individual initiative, cooperative spirit and desire to develop new systems on the cutting edge of science and technology.

Applied Biosystems is the leading developer and manufacturer of instrument-reagent systems and chemical products for the synthesis, sequencing, purification and analysis of proteins, peptides, amino acids and DNA. Our customers are the leading research, academic, medical, scientific and industrial organizations **worldwide**. This is a highly visible position in the San Francisco Bay area headquarters of a unique, progressive company that is a proven equal opportunity employer.

Address a copy of your curriculum vitae or resume to:

Ms. Rochelle Murphy

850 Lincoln Centre Drive, Foster City, CA 94404

AUSTRALIA CSIRO

RESEARCH FELLOW
A\$27,475-A\$33,901
DIVISION OF ANIMAL PRODUCTION
PROSPECT NSW

FIELD: Genetic transfer systems in anaerobic bacteria.

GENERAL: The Division of Animal Production, with Headquarters near Sydney, conducts research into various areas such as Biotechnology, Genetics, Immunophysiology, Minerals and Fertilisers, Nutrition and Skin and Fleece Biology with the aim of improving the efficiency of livestock production.

DUTIES: To undertake research in the genetics of selected anaerobic bacteria from the rumen, and to develop systems for the transfer of genetic material to rumen anaerobes.

QUALIFICATIONS: A PhD degree or equivalent qualifications preferably in microbiology, genetics or biochemistry plus research experience in the techniques for studying the genetic systems of bacteria. A knowledge of anaerobic culture techniques would be advantageous.

TENURE: A term of three years with Australian Government superannuation benefits available.

APPLICATIONS: Stating relevant personal particulars, including details of qualifications and experience, the names of at least two professional referees and quoting reference No Y9224, should be directed to:

The Chief
CSIRO Division of Animal Production
PO Box 239
BLACKTOWN NSW 2148

by 4 weeks from date of publication

CSIRO IS AN EQUAL OPPORTUNITY EMPLOYER

SENIOR RESEARCH PHARMACOLOGISTS

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

Gastrointestinal Pharmacology

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

Cardiovascular Pharmacology

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



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

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POSITIONS OPEN

MOLECULAR BIOLOGISTS

PERMANENT AND POSTDOCTORAL positions available to join group engaged in studies on gene regulation and biosynthesis of the early complement system proteins. Research projects will investigate mechanisms of gene expression, protein processing, and macromolecular structure-function relationships using site-directed mutagenesis. Candidates for permanent position should be well versed in recombinant DNA technology. Salaries to be commensurate with experience and training. Applicants should forward curriculum vitae to: **Dr. John E. Mole, Department of Biochemistry, University of Massachusetts Medical Center, Worcester, MA 01605.**

PHYSIOLOGIST

Faculty teaching/research position available 1 July 1986. A Ph.D. degree in human physiology is required. Knowledge of human neuroanatomy is desirable. Strong commitment to teaching and research is required. Submit curriculum vitae to:

Douglas H. Poorman, Ph.D.
Vice President of Academic Affairs
Southern College of Optometry
1245 Madison Avenue
Memphis, TN 38104
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POSTDOCTORAL POSITIONS IN PLANT MOLECULAR BIOLOGY

Two postdoctoral positions in plant molecular biology available for individuals with excellent training in nucleic acid biochemistry and/or molecular genetics. Position with **Dr. J. Yoder** examining genome fluidity in various wild tomato species to develop a transposon mutagenesis system. Position with **Dr. J. Dvorak** to clone and characterize seed storage proteins in wheat. Submit by 15 May statement of interest, curriculum vitae, and names and telephone numbers of three references to:

**Dr. J. Yoder, Department of Vegetable Crops, or
Dr. J. Dvorak, Department of Agronomy
University of California-Davis
Davis, CA 95616**

POSTDOCTORAL POSITION IN MOLECULAR BIOLOGY/IMMUNOGENETICS starting July 1986 or after. Projects include (i) molecular genetic analysis of the generation of diversity among major histocompatibility genes in the mouse, and (ii) site-directed mutagenesis and exon-shuffling studies to investigate the relationship of structural diversity to the immune function of the proteins encoded by these genes. Excellent departmental training environment (features include modern, well-equipped research facilities, good interlaboratory collaborations, an outstanding speaker program, and 20 departmental fellows for enhanced interaction). U.S. citizenship or permanent residency required. Send curriculum vitae and names of three references to: **Larry R. Pease, Ph.D., Department of Immunology, Mayo Clinic Medical School, 301B Guggenheim Building, Rochester, MN 55905.** *An Equal Opportunity/Affirmative Action Institution.*

POSTDOCTORAL POSITION starting September 1986 for NIH-funded research on protein folding in two-chain, α -helical, coiled coil proteins. Experience in biochemistry/biophysical chemistry, especially protein preparation, purification, modification, and physical characterization (for example, CD) preferred. Send curriculum vitae with names and addresses of three references to: **Professor A. Holtzer, Department of Chemistry, Washington University, St. Louis, MO 63130.** *Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION open to study epithelial transport in ocular tissues and other epithelia. Experience in electrophysiology (intracellular microelectrode technique, patch clamp) and/or membrane vesicles or membrane fragments for the study of ion transport. Great possibility of a career in eye research. Candidate must be prepared to spend two summer months at the MDIBL Laboratory in Maine, working in this field. Salary commensurate with experience following NIH postdoctoral fellow scale. Send curriculum vitae with cover letter and two references to: **Dr. J. A. Zadunaisky, Department of Physiology and Biophysics, 550 First Avenue, New York University (NYU) Medical Center, New York, NY 10016.** *NYU is an Equal Opportunity Employer.*

POSITIONS OPEN

POSTDOCTORAL FELLOW. Position available to obtain research training and experience in the field of retinoids and retinoid-binding proteins. The position is part of a broad interdisciplinary training program in the areas of lipid and lipoprotein metabolism, vascular cell biology, mitogens, and atherosclerosis, supported by an NIH training grant. Requirements: a Ph.D., M.D., or equivalent, and U.S. citizenship or permanent residency. Apply to: **Dr. DeWitt S. Goodman, Columbia University College of Physicians and Surgeons, 630 West 168 Street, New York, NY 10032.** *Columbia University takes Affirmative Action to ensure Equal Opportunity.*

POSTDOCTORAL FELLOW UNIVERSITY OF ALABAMA AT BIRMINGHAM

Applications are invited for a postdoctoral fellow position in the Department of Cell Biology and Anatomy. The area of research will include molecular and cellular characterization of microtubule organizing centers with particular emphasis on the centromere/kinetochore of mammalian chromosomes. Prefer experience in cell culture, recombinant DNA methods, and protein chemistry. Will perform gene cloning, sequencing, DNA-protein interaction, microinjection, and immunocytochemistry at light and EM level. Submit current curriculum vitae including three letters of reference by 1 June 1986 to: **Dr. B. R. Brinkley, Professor and Chairman, Department of Cell Biology and Anatomy, University of Alabama at Birmingham, University Station, Birmingham, Alabama 35294.** *An Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITIONS available immediately to study the role of the extracellular matrix in oncogenic transformation. Experience in biochemistry/cell biology/molecular biology preferred. Expertise in protein purification/characterization or production of monoclonal antibodies desirable. Send curriculum vitae and three letters of recommendation to: **Dr. Susan P. Hawkes, Department of Pharmaceutical Chemistry, S-926, University of California, San Francisco, CA 94143.** *Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITIONS are available to work on the biochemistry and molecular biology of adrenergic receptors. Studies are in two areas: (i) biochemical mechanisms of regulation of responsiveness and receptor-transducing protein-effector interactions in reconstituted systems and (ii) molecular biology of adrenergic receptors: cloning, expression, gene structure, and site-directed mutagenesis. Applicants should have strong background in biochemistry and/or recombinant DNA technology. Send curriculum vitae and two to three letters of reference to: **Dr. Robert J. Lefkowitz and Dr. Marc G. Caron, Howard Hughes Medical Institute, Box 3821, Department of Medicine, Duke University Medical Center, Durham, NC 27710.**

POSTDOCTORAL POSITION. THE DANA-FARBER CANCER INSTITUTE is seeking to fill one research position at the postdoctoral level, starting summer 1986, to study the molecular mechanism of differentiation of cultured embryonic teratocarcinoma stem cells. Potential projects concern the study of gene structure and the developmental control of gene expression. Strong background in biochemistry, developmental biology, or molecular biology required. Joint appointment will be held in an appropriate department at Harvard Medical School. Send curriculum vitae and names of three references to: **Dr. Lorraine Gudas, DANA-FARBER CANCER INSTITUTE, 44 Binney Street, Boston, MA 02115.** *An Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITION IN PRIMATE REPRODUCTIVE ENDOCRINOLOGY

Available immediately to Ph.D. or M.D. to study peptide and steroid production by fetoplacental unit during baboon pregnancy. 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 POSITION available immediately for NIH-funded studies on structure-function relationships of thrombin-like venom enzymes. Amino acid sequencing and comparative three-dimensional molecular modeling using computer graphics in collaboration with **Dr. R.M. Stroud, University of California, San Francisco**, leading to site-directed mutagenesis experiments. Candidates should have background in molecular biology and protein chemistry. Competitive salary, dependent on experience. Send letter describing interests, curriculum vitae, and names and addresses of three references: **Dr. H. C. Pirkle, Department of Pathology, Medical Sciences I, University of California, Irvine, CA 92717.** *Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITIONS PROTEIN PROCESSING YEAST MOLECULAR BIOLOGY

Openings for two Ph.D.'s with proven skill in yeast genetics or molecular biology to study the biosynthesis and regulation of amino terminal protein processing enzymes; clone and sequence the cDNA and genomic DNA encoding these enzymes; employ site-specific mutagenesis; and examine the translation, translocation, and processing mechanisms. Successful applicant(s) will join a state-of-the-art laboratory with facilities for molecular biology, peptide/oligonucleotide synthesis, and protein sequence analysis, now actively engaged in the molecular biology of intracellular protein processing. Telephone or write: **John A. Smith, M.D., Ph.D., Department of Molecular Biology, Massachusetts General Hospital, Fruit Street, Boston, MA 02114; telephone: 617-726-5954.**

POSTDOCTORAL/RESEARCH ASSOCIATE POSITION available to study regulation of bone cell differentiation and remodeling. Emphasis is on cell surface proteins and cell-cell, cell-matrix interactions, monoclonal antibody, protein biochemistry (HPLC), cell culture, and all morphological methods used. Competitive salary available 1 July 1986. Send curriculum vitae and names of two references to: **Dr. Philip Osdoby, Department of Cell Biology, Washington University School of Dental Medicine, 4559 Scott Avenue, St. Louis, MO 63110.**

POSTDOCTORAL RESEARCH ASSOCIATE POSITION available immediately to study mechanisms of porphyrin photosensitization and photoradiation therapy in skin. Candidate must have a Ph.D. degree in biological sciences and have experience in photochemistry/photobiology/phototoxicology. Send curriculum vitae and three letters of reference to: **David R. Bickers, M.D., Department of Dermatology, Case Western Reserve University, 2074 Abington Road, Cleveland, OH 44106.**

POSTDOCTORAL RESEARCH ASSOCIATE

Position available 1 July 1986 to investigate regulatory aspects of human red blood cell cytoskeletal protein associations. Experience with enzyme purification (particularly protein kinases and phosphatases) and red blood cell membranes highly desirable. Applicants should be skilled in analytical and preparative biochemical techniques. Salary commensurate with experience. Please send curriculum vitae and names of three references to: **Carl M. Cohen, Ph.D., Department of Biomedical Research, St. Elizabeth's Hospital, 736 Cambridge Street, Boston, MA 02135.** *Equal Opportunity Employer.*

ST. GEORGE'S UNIVERSITY SCHOOL OF MEDICINE GRENADA, WEST INDIES

- 1) Professor in charge of the teaching of physiology. Medical qualification preferable, but not essential. Required for mid-August.
- 2) Additional demonstrators in histology. Suitable for young person with an advanced degree in medical sciences or recent medical products.

Apply as soon as possible to:

**St. George's University School of Medicine
P. O. Box 7
St. George's
Grenada-West Indies**

**MEDICAL OFFICER/HEALTH SCIENTIST
ADMINISTRATOR
DIVISION OF BLOOD DISEASES
AND RESOURCES
NATIONAL HEART, LUNG, AND
BLOOD INSTITUTE**

The National Heart, Lung, and Blood Institute seeks applicants for the position of Branch Chief of the Blood Diseases Branch of the Institute's Division of Blood Diseases and Resources with an annual salary ranging from \$52,262 to \$68,700 depending upon qualifications. Physicians may be eligible for a Physicians' Comparability Allowance paying up to \$10,000 per year. The Blood Diseases Branch has a primary responsibility for the planning and direction of basic, applied and clinical research in the areas of thromboembolic and hemorrhagic diseases and also manages programs related to Cooley's anemia, other hemoglobinopathies and red blood cell enzyme or membrane disorders. The position requires participation with the Director and other members of his staff in establishing research priorities and in implementing and conducting specific grant and contract programs.

An applicant must have either an M.D. or a Ph.D. with significant experience in the field of hematology in general and thrombosis and hemostasis in particular. The applicant's background should include detailed knowledge of hematologic disorders and mechanisms and he/she must be familiar with research approaches relevant to these areas. Appointment will be made in the Federal civil service or the U.S. Public Health Service Commissioned Corps. Those interested in being considered for this position should submit a completed Form SF-171 (Personal Qualifications Statement), along with a Curriculum Vitae and Bibliography, to the NHLBI Personnel Office, National Institutes of Health, Public Health Service, 9000 Rockville Pike, Building 31, Room 5A-34, Bethesda, Maryland 20892, on or before May 16, 1986. For additional information, please contact Ms. Anne Stroh on (301) 496-6477.

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POSITIONS OPEN

POSTDOCTORAL POSITION available to study structure-function relationships and mechanisms of regulation of Ca^{2+} - and calmodulin-dependent enzymes from mammalian brain. Experience in protein chemistry and enzymology is desired. Send curriculum vitae and three letters of recommendation to: **Dr. Marita M. King, Department of Chemistry, The Ohio State University, 140 West 18 Avenue, Columbus, Ohio 43210.**

POSTDOCTORAL POSITION-HARVARD MEDICAL SCHOOL/CHILDREN'S HOSPITAL available July 1986 or later to study nerve regeneration in the PNS and CNS. Research involves light and EM histology, state-of-the-art computer graphics, and some primate surgery. Salary support at current NIH levels will come from departmental training grant. Send curriculum vitae and names of three references to: **Dr. Roger Madison, Department of Neuroscience, Harvard Medical School, Children's Hospital, 300 Longwood Avenue, Boston, MA 02115. An Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL RESEARCH ASSOCIATE POSITION available immediately for studies on the molecular mechanisms of action of hormones, neurotransmitters, and growth factors on the sympathetic nervous system. Candidates should have a Ph.D. or M.D. and an interest in neuroscience, endocrinology, and/or cellular control mechanisms. Send curriculum vitae and names of three references to: **Dr. Robert L. Perlman, Head, Department of Physiology and Biophysics, University of Illinois College of Medicine, Box 6998, Chicago, IL 60680. The University of Illinois is an Equal Opportunity/Affirmative Action Employer.**

RESEARCH SCIENTIST with appropriate non-tenure-track, faculty rank sought to study immune response to Epstein-Barr virus. Experience required in EBV-related assay methods; antibody development, immunofluorescence, virus titration and neutralization, transformation, protein chemistry techniques. Ability to teach, write grants, and papers required. Salary to \$34,000, health insurance, and vacation benefits. Position funded for 3 years. If interested in, and qualified for the above position, please forward your résumé to: **Case number 6126, Division of Employment Security Building, Government Center, Boston, MA 02114.**

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RESEARCH SERVICES ASSISTANT VICE CHANCELLOR THE UNIVERSITY OF TENNESSEE, MEMPHIS

Responsibilities: develop and maintain direct contact with funding agencies, improve researchers' ability to compete for funding, negotiate with funding agencies, assist faculty in preparing for site visits, review financial, as well as other aspects of all research funding requests submitted from the university, direct all technology transfer activities for this university, and provide leadership in developing campus policies governing extramural-funded research.

Requirements: at least 5 years of experience in a major funding agency or in a similar position in a health science center and a biomedical or professional doctoral degree. Salary is commensurate with qualifications and experience. Send résumé and the names, addresses, and telephone numbers of three professional references to:

**Robert L. Blackwell
Business and Finance Vice Chancellor
University of Tennessee, Memphis
800 Madison Avenue
Memphis, TN 38163**

Applications and supporting materials must be received by 15 May 1986.

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

RESEARCH TECHNICIAN POSITION available for Atlanta University Center Scanning Electron Microscopy Research Laboratory. Salary: \$20,500. Send curriculum vitae to: **Dr. Betty Ruth Jones, Department of Biology, Morehouse College, Atlanta, Georgia 30314. An Affirmative Action/Equal Opportunity Employer.**

POSITIONS OPEN

RESEARCH ASSOCIATES-MOLECULAR VIROLOGY

Four positions available immediately. Positions are 1 year appointments, with possible extension for a second year. Salaries are \$26,381, Ph.D. and previous experience in molecular biology of animal viruses required. Positions are (i) molecular biologist to identify immunogenic proteins of avian infectious bursal disease virus and their relevant genes. (ii) molecular biologist to identify strong promoter sequences of fowl pox virus and utilize these promoters to develop genetically engineered recombinant DNA vaccines. (iii) molecular geneticist to join a team that has successfully produced transgenic chickens using avian retroviruses and to work toward producing more efficient retroviral vectors for germline insertion of foreign genes. (iv) molecular biologist to identify genes coding for Marek's disease tumor-associated surface antigen. Laboratory well established in area of molecular biology, virology, immunology, and genetics. Team approach emphasized. Send résumé and three references to: **Dr. J. M. Sharma (i), Dr. K. Nazerian (ii), Dr. L. B. Crittenden (iii), or Dr. L. F. Lee (iv), U.S. Department of Agriculture, Agricultural Research Service, Regional Poultry Research Laboratory, 3606 East Mt. Hope Road, East Lansing, MI 48823. An Equal Opportunity/Affirmative Action Employer.**

RESEARCH ASSOCIATE/PH.D.

Position available for individual with expertise in molecular biology and renal cell biology. Salary commensurate with qualifications and experience. Send inquiry and curriculum vitae to: **Michael J. Dunn, M.D., Director, Division of Nephrology, Department of Medicine, University Hospitals of Cleveland, 2074 Abington Road, Cleveland, OH 44106.**

RESEARCH ASSOCIATE AT POSTDOCTORAL LEVEL to work on biochemical and molecular genetics of hormones and neuropeptides in genetically hypertensive rats. Applicants must be citizens or permanent residents of United States. Starting time flexible after 1 July. Send curriculum vitae to: **Dr. John Rapp, Department of Medicine, Medical College of Ohio, C.S. 10008, Toledo, Ohio 43699. Equal Opportunity Employer, M/F.**

RESEARCH TECHNICIAN MOLECULAR BIOLOGIST

Position available immediately for senior technician with extensive experience in gene cloning and analysis of gene expression in eukaryotic systems. Applicant will be responsible for the breeding and molecular analysis of a large transgenic mouse colony. Send curriculum vitae and references to: **Dr. Frank Chisari, c/o Human Resources, Scripps Clinic and Research Foundation, 3333 North Torrey Pines Court, La Jolla, CA 92037. Equal Opportunity/Affirmative Action Employer, M/F/H.**

RETROVIROLOGIST

We are seeking a mammalian retrovirologist to direct a new retrovirus program in a private academic research institute. Ph.D. degree with a minimum of 3 years of postdoctoral experience in molecular virology required. Field of work will include human leukemias and AIDS. Position requires interaction with multidisciplinary groups of biochemists, cell biologists, and immunologists. Salary: \$35,000 up (negotiable). Please send résumés to: **John C. Klock M.D., Scientific Director, Institute of Cancer Research, 2200 Webster Street, San Francisco CA 94115; telephone: 415-561-1691.**

SENIOR RESEARCH ASSOCIATE

Protein biochemist holding Ph.D. degree and at least 2 years of postdoctoral training to be an active participant in well-developed but innovative study of biologically relevant protein-lipid interactions. Problem area deals primarily with separation, isolation and characterization of unique human liver secretory proteins having a variety of biological functions. Co-workers consist of an interactive group already of critical size for productivity. Candidates should have appropriate biochemistry, cell biology, and possibly applied immunochemistry experience. Submit complete résumé and names of three references to: **G.I. Research Unit, Cleveland Clinic Foundation Research Institute, 9500 Euclid Avenue, Cleveland, OH 44106. An Equal Opportunity Employer.**

COURSES

SUMMER COURSES IN GROSS ANATOMY, HISTOLOGY EMBRYOLOGY, AND NEUROANATOMY

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**Dr. Martin Dym, Chairman
Department of Anatomy and Cell Biology
Georgetown University
School of Medicine — School of Dentistry
3900 Reservoir Road, NW
Washington, DC 20007
Telephone: 202-625-7521**

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FELLOWSHIPS

POSTDOCTORALS UNIVERSITY OF CALIFORNIA

Four NIH fellowships are available in either molecular immunology (somatic DNA rearrangement in lymphocytes; Dr. Sakano) or developmental genetics (gene regulation in *C. elegans* and *biotin* operon in *Escherichia coli*; Dr. Otsuka) for U.S. citizens or permanent residents. Send résumé to: **H. Sakano or A. Otsuka, Genetics Group, 345 Mulford Hall, University of California, Berkeley, CA 94720. An Equal Opportunity Affirmative Action Employer.**

POSTDOCTORAL FELLOWSHIP available immediately for research in molecular, cellular, biochemical and human genetics, and tumor biology, virology, and immunology. Financial support is available through our NCI Training Grant. Candidates must be U.S. citizens or permanent residents. Candidates should send curriculum vitae, names of three references and research interests to: **David E. Anderson, Ph.D., The University of Texas M.D. Anderson Hospital and Tumor Institute, 6723 Bertner, HMB Box 209, Houston, TX 77030. An Equal Opportunity/Affirmative Action Employer.**

CLINICAL NUTRITION FELLOWSHIP — The Nutrition Service invites applications for fellowships beginning 1 July 1987. All aspects of nutrition support with emphasis on parenteral and enteral nutrition, participation in outpatient clinics, rotations to collaborating institutions, teaching activities, and electives. Possible 1 to 2 years of nutrition research to follow. Two to 3 years of graduate training in medicine required. For more information, write to: **Richard S. Rivlin, M.D., Chief, Nutrition Service, MSKCC, Memorial Sloan-Kettering Cancer Center, Box 140, 1275 York Avenue, New York, NY 10021.**

TRAINING PROGRAM

AGING BASIC RESEARCH TRAINING PROGRAM

Predoctoral and postdoctoral positions are open for qualified applicants in a National Institutes of Aging supported training program. A faculty interested in aspects of aging as related to extracellular matrix (from skin, muscle, and cartilage) and neuronal cell structure and function act as mentors. Predoctoral applicants will be admitted through Ph.D. granting departments in the medical or engineering schools, while postdoctoral applicants can obtain positions in either clinical or basic science departments. For more information, send your curriculum vitae, three letters of recommendation, and appropriate transcripts to: **Dr. Arnold I. Caplan, Biology Department, Case Western Reserve University, Cleveland, Ohio 44106. An Equal Opportunity Employer.**

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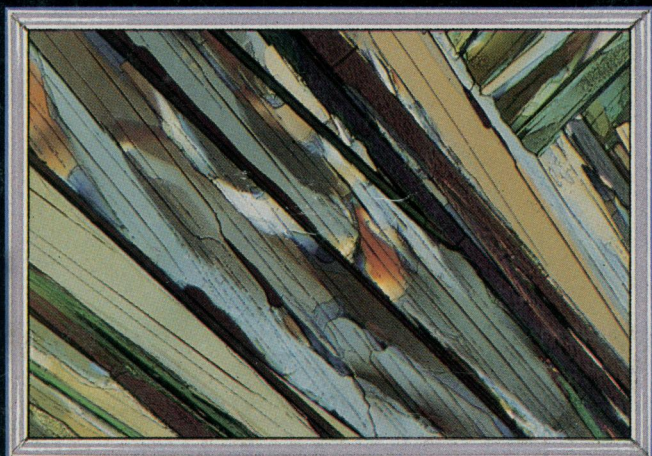
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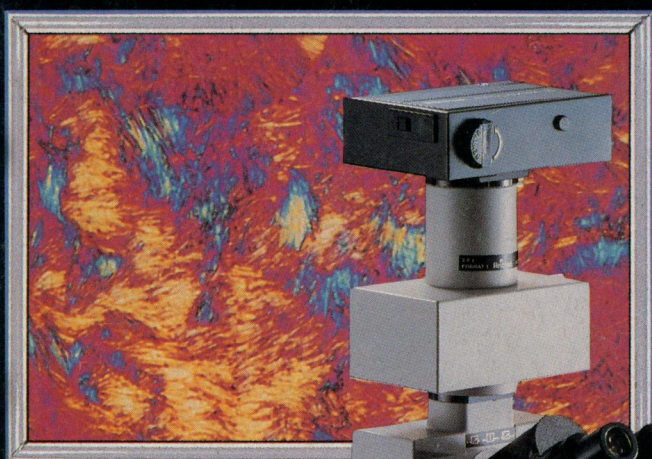
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