PERSONNEL PLACEMENT

SCIENCE publishes each Friday, except the last Friday of the year, and is sold on issue date. Advertisements are accepted only with the understanding that the advertiser does not discriminate among applicants on the basis of age, sex, color, national origin, handicap, or sexual preference. SCIENCE reserves the right, in its discretion, to decline to publish advertisements submitted to it.

LINE CLASSIFIED ADVERTISEMENTS

DEADLINE: Thursday, 10 a.m., 2 weeks prior to issue date. Advertisements may be accepted only with the understanding that the advertiser does not discriminate among applicants on the basis of age, sex, color, national origin, handicap, or sexual preference. SCIENCE reserves the right, in its discretion, to decline to publish advertisements submitted to it.

PREFERENCES:

POLICIES: All classified ads will be edited and typeset according to SCIENCE style guidelines. NO ABBREVIATIONS. Any deadline for applications stated in ad must be at least 2 weeks after date of issue in which ad appears.

CLASSIFICATION:

SCIENCE publishes line classified ads under the following headings: Positions Open, Employment Agencies, Fellowships, Situations Wanted, Courses and Training, Meetings, Announcement, and Marketplace. Advertisers should specify classification desired. SCIENCE reserves the right to decline classification requests which it believes may be misleading to its readers.

RATES:

$41 per line, $410 minimum, per week. One line equals 52 characters and spaces. Headings equal 52 characters and spaces per line. No charge for use of blind box number. No agency commission for ads less than 40 lines. To ESTIMATE ad cost, structure ad, and calculate approximate cost of ad, per week. (This is an approximate cost only.) Allow for variation between estimated lines and actual typeset lines and resulting final cost. Purchase orders must allow for some degree of flexibility and/or adjustment. SCIENCE cannot provide proofs of typeset ads.

PAYMENT DISCOUNT:

A 3% cash discount is granted on all ads. Payment must be made in U.S. dollars by check drawn on U.S. banks is required for all foreign ads.

BOXES AND LOGOS:

Any one-column line classified ad can be boxed and/or published with logo. No extra production charge for use of box or logo. For boxed ads, one line equals 48 characters and spaces; two additional lines will be added to cost of ad to allow for top and bottom box rules. Logos are billed according to number of lines needed to accommodate logo.

SITUATIONS WANTED ADS:

As a service to AAAS members, SCIENCE offers free placement of Situations Wanted ads for individuals seeking full-time employment. A blind box may be used. Ads must be submitted in writing with a text of 20 words or less, not including address or box number, and are limited to two insertions per member in each calendar year. Please enclose SCIENCE mailing label including AAAS membership number when submitting ad.

CANCELLATIONS:

Deadline for cancellations is 10 a.m. Tuesday, 10 days prior to issue date.

Address all copy or requests for information to:

ADVERTISEMENTS

SCIENCE Classified Advertising

1333 H Street, NW, Room 940

Washington, DC 20005

Telephone: 202-326-6555

FAX: 202-662-0816

MARKETPLACE AND DISPLAY PERSONNEL

For rates, deadlines, and information about fractional display ads (1/8 page and larger) and all Marketplace listings of available products and services, contact:

Scherago Associates, Inc.

1515 Broadway

New York, NY 10036

Telephone: 212-730-1050

FAX: 212-362-3725

RESPONSES TO EMPLOYMENT ADS

Applicants should read Positions Open ads carefully in order to ensure that the applicant is qualified and should especially check for any stated deadline for receipt of applications. SCIENCE encourages applicants for positions to investigate employment laws, nondiscriminatory requirements, and cultural differences in the country advertising for employees.

To reply to a blind box ad, address correspondence to:

SCIENCE Classified Advertising

1333 H Street, NW, Room 940

Washington, DC 20005

POSITIONS OPEN

ANATOMY/PHYSIOLOGY

SEARCH REOPENED

ASSISTANT PROFESSOR of anatomy/physiology position at Indiana University at Indianapolis (IUPUI) is available in Purdue School of Science at IUPUI. Ph.D. degree is required, and candidate must have a strong commitment to teaching and considerable research potential. Send curriculum vitae, three letters of recommendation, and three references to: Dr. John Marks, Department of Biology, 1051 Science Building, IUPUI, Indianapolis, IN 46202. Review of applications will begin immediately and will continue until position is filled.

AQUATIC MICROBIOLOGIST

ASSISTANT PROFESSOR in the School of Natural and Applied Sciences at the University of South Carolina (USC) Coastal Carolina College. Full-time, tenure-track position available 16 August 1990. Search reopened. Ph.D. required. Preference given to candidates with research interests in environmental aquatic biology. Applications will be reviewed until position is filled. Send curriculum vitae, three letters of recommendation, and three references to: Dr. Paul Bippens, IUPUI, Coastal University, 4601 Central Avenue, Columbus, IN 47203. An Affirmative Action/Equal Opportunity Employer.

ASSISTANT/ASSOCIATE AGRONOMIST/PLANT BREEDER.

Research responsibilities will be breeding and genetics of soybean and/or sugar production systems. Emphasis on photoperiodic groups IV through VII and host plant resistance to major disease, insects, and nematode pests are an integral part of the assignment. A Ph.D. in agronomy/plant breeding or genetics with emphasis on host plant resistance breeding required; research experience preferred. Positions located at the University of South Carolina Coastal Forest Experiment Station, Stoneville, Mississippi. Send résumé, transcripts, list of publications, and three letters of reference to: Dr. T. Delannoy, Chairman, Search Committee, Delta Branch Experiment Station, P.O. Box 197, Stoneville, MS 38776. Mississippi State University is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSIONAL, NEUROBIOLOGY/PHARMACOLOGY.

At Tufts University School of Medicine. We seek an investigator with experience or potential in supervising an independent research program. Preferred research interests include postsynaptic receptors or neurotransmitter interactions. Molecular biology experience preferred but not essential. Research support is available. Send curriculum vitae to: Dr. Lawrence R. Miller, Tufts University School of Medicine, 750 Washington Street, Boston, MA 02111.

ASSISTANT PROFESSOR

WILDLIFE ECOLOGY

The Department of Wildlife Ecology at the University of Wisconsin–Madison seeks applicants for a 12-month, tenure-track position as assistant professor. Application deadline is 1 June 1990 or until position is filled. An earned Ph.D. in wildlife ecology/management/biology is required and postdoctoral research and teaching experience is desirable. The successful applicant is expected to conduct research with large ungulates and carnivores, and to teach two courses each year. Send curriculum vitae, college transcripts, three to five letters of reference, and statement of research interests to: Dr. Robert L. Ruff, Chair, Department of Wildlife Ecology, 226 Russell Laboratories, University of Wisconsin, Madison, WI 53706. Phone: (608-262-2671). The University of Wisconsin is an Equal Opportunity Employer.

POSITIONS OPEN

ASSISTANT PROFESSOR. Anticipated 1-year appointment beginning September 1990 for biologist to teach two courses in areas of community (ecology or ethology preferred), team-teach a course in evolution, and offer a course for nonscience majors. Ph.D. and teaching experience required. Send resumé and three letters of recommendation by 11 May 1990 to: Dr. Carolyn R. Newton, Department of Biology, Kalamazoo College, Kalamazoo, MI 49007. Affirmative Action/Equal Opportunity Employer. Kalamazoo College is committed to diversity and particularly encourages women and minorities to apply.

ASSISTANT PROFESSOR, ZOOLOGY.

Applicants are invited for a full-time, tenure-track position in animal behavior/reproductive biology. Ph.D. in zoology, postdoctoral experience desirable, and a strong background in neuroscience required. Candidates should be bilingual in English and Spanish. The ideal candidate will participate in the teaching program at the undergraduate and graduate levels and establish an independent research program. Send curriculum vitae, letters of reference, and copies of recent publications to: Dr. Carlos A. Delanney, Chairperson, Department of Zoology, University of Puerto Rico at Mayagüez, Mayagüez, PR 00709-5000. Applications must be received by 28 May 1990. The University of Puerto Rico is an Equal Opportunity/Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

THE AMERICAN UNIVERSITY

WASHINGTON DC

ASSISTANT PROFESSOR

DEPARTMENT OF CHEMISTRY

A 1-year, temporary, non tenure-track position is available starting in August 1990. The position may be renewable for a maximum of 3 years of service. Applicants should be qualified to teach organic chemistry and general chemistry. The successful candidate will teach both on campus and in an off-campus master's program. Interested candidates are invited to submit curriculum vitae, undergraduate transcripts, and three letters of reference to: Dr. James E. Girard, Chairman, Department of Chemistry, The American University, 4400 Massachusetts Avenue, N.W., Washington, DC 20016. Application deadline: 18 May 1990. The American University is an Equal Opportunity/Affirmative Action/Equal Opportunity Employer. Minority and women candidates are encouraged to apply.

JOHNS HOPKINS CENTER FOR ALTERNATIVES TO ANIMAL TESTING (CAAT)

CAAT is seeking an assistant to the director to participate in the administrative, educational, and research activities of the center. This appointment will be at the ASSISTANT PROFESSOR level in the Division of Environmental Sciences of the Department of Environmental Health Sciences, The Johns Hopkins School of Hygiene and Public Health. The successful candidate will have a Ph.D. or equivalent; teaching and laboratory experience, including cell culture expertise; significant publications demonstrating experience in the area of molecular biology and/or toxicology; writing and speaking skills; and interests in the area of toxicology policy.

Interested individuals should submit curriculum vitae, a letter describing background and experience appropriate for pursuing a career in toxicology policy and in vitro toxicology, and have three letters of recommendation forwarded directly to:

Search Committee

c/o A. M. Goldberg, Ph.D.

Johns Hopkins Center for Alternatives to Animal Testing

615 North Wolfe Street

Baltimore, MD 21205

Application deadline: 30 May 1990.

The Johns Hopkins School of Hygiene and Public Health. The University is an Equal Opportunity/Affirmative Action Employer.
ASSISTANT PROFESSOR. The Department of Biochemistry, University of Miami, is seeking a candidate for a tenure-track position in Molecular and Cell Biology, with an emphasis on understanding the genetic and molecular mechanisms underlying health and disease. Ph.D. required. The position is available at the Assistant Professor level. Applicants should have a strong interest in research and a commitment to teaching. Applicants should submit a curriculum vitae, a statement of research interests, and three letters of recommendation to: John A. Bishop, Chair, Department of Biochemistry, University of Miami, P.O. Box 248696, Coral Gables, Florida 33124. Review of applications will begin immediately and will continue until the position is filled.

THE UNIVERSITY OF WASHINGTON DEPARTMENTS OF CHEMISTRY AND GEOLGY

The Department of Chemistry and Geology invites applications for a tenure-track appointment at the Assistant Professor level. The Department is seeking candidates who have a Ph.D. in a discipline in chemistry or geology and who have demonstrated potential for excellence in both teaching and research. Applicants should have a strong commitment to teaching and to a program of independent research. The position is available at the Assistant Professor level. Applicants should submit a curriculum vitae, a statement of research interests, and three letters of recommendation to: Department Chair, Department of Chemistry, University of Washington, Box 351700, Seattle, Washington 98195-1700. Review of applications will begin immediately and will continue until the position is filled.

ASSISTANT/ASSOCIATE PROFESSOR. The Department of Molecular and Cell Biology, University of California, Berkeley, is seeking candidates for a position at the level of Assistant or Associate Professor. Ph.D. or equivalent required. The position is available at the Assistant Professor level. The Department is seeking candidates who have a strong interest in research and a commitment to teaching. Applicants should submit a curriculum vitae, a statement of research interests, and three letters of recommendation to: Chair, Search Committee, Department of Molecular and Cell Biology, University of California, Berkeley, CA 94720-3200. Review of applications will begin immediately and will continue until the position is filled.

The American Physical Society is an equal opportunity employer and welcomes applications from women, minorities, and persons with disabilities.
SCIENTIST
Surgical Pharmacology


As the world’s foremost manufacturer of sutures and wound closure devices, Ethicon, Inc., a Johnson & Johnson Company, offers a stimulating environment for scientists and other technically oriented professionals. We currently seek an individual with strong experimental design and analysis skills to join the R&D team at our Somerville headquarters.

Your responsibilities will revolve around designing, conducting, analyzing and reporting animal efficacy studies. Coordinating with outside investigators, evaluating potential projects, creating models, and making presentations will also be involved.

Qualified candidates will possess a Ph.D. or M.S. degree with a minimum of 4 years’ related experience in physiology, pathology, immunology or pharmacology. Expertise in scientific writing and in vivo techniques, as well as strong interpersonal and communication skills, are essential. Background in wound healing, inflammation or hemostasis would be a definite advantage.

As a member of the Johnson & Johnson Family of Companies, we offer an environment well suited to your professional advancement, a competitive salary, and outstanding benefits which include our LIVE FOR LIFE wellness program. For immediate consideration, please send your resume with salary requirement in confidence to: Employment Manager, Dept. S, Ethicon, Inc., Box 151, Somerville, NJ 08876-0151. An Equal Opportunity/Affirmative Action Employer M/F/H/V.

ETHICON
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THE UNIVERSITY OF ADELAIDE
SOUTH AUSTRALIA

Invites applications from both women and men for the following positions:

PROFESSOR OF BOTANY (TENUREABLE)
Reference: 1664 in the Department of Botany. The research program in the Department of Botany is concentrated in three broad areas: terrestrial and aquatic ecosystems in semi-arid lands, evolutionary plant systematics and palaeobotany, and cell biology. The university is a leader in an international reputation for research in one of the three areas listed above, and a commitment to fostering the department's unique emphasis on the broad impact of research on the general public. The dean, a chief administrative and academic officer of the College of Veterinary Medicine and is responsible to the vice-master of the University. The College of Veterinary Medicine is a separate budget entity and is one of four units in the Institute of Agriculture. Degree(s): M.S. and Ph.D. degrees. An understanding of state-supported educational institutions, state and federal legislative processes and institutional and departmental policies is required. An understanding of a diverse range of academic organizations, and the ability to understand and develop initiatives with them is necessary. The university, a large, diverse academic institution, requires the appointment of a candidate who possesses a Ph.D. degree in a physical science. The individual will hold the position of chairman of the department for an initial period of 3 years. The position is available from 1 July 1990. Further information may be obtained from: Dr. R. Sinclair, Departmental Chairman, telephone: 08-228-5280, FAX: 08-232-3297.

The University of Adelaide is an Equal Opportunity Employer.

CELL BIOLOGY POSITION

The Department of Anatomy and Cellular Biology of Tufts University Schools of Medicine, Dental Medicine and Veterinary Medicine, invites applications for a tenure-track position. This position will also involve membership in the continuing development of the Tufts University Schools of Medicine and Veterinary Medicine curricula. The position provides an opportunity to work with a diverse group of faculty members and to interact with the multitude of educational programs in the university. The faculty member will be expected to contribute to the department's teaching and research efforts in an area related to cell biology. The position requires a Ph.D. or M.D. degree, and the ability to engage in research that is independent of the research of other faculty members. The individual will be expected to maintain an active research program and to participate in the department's educational activities. Applicants should send a curriculum vitae, a summary of their research interests, a letter of interest, and three letters of recommendation to: Dr. George Camenisch, Department of Anatomy and Cellular Biology, Tufts University School of Medicine, Boston, MA 02111.

Tufts University is an Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.

SOMON FRASER UNIVERSITY
SCHOOL OF KINETOLOGY

The School of Kinesiology of Simon Fraser University invites applications for the position of director, who is responsible for the academic and administrative management of the department. The directorship will begin on September 1, 1990, and be renewed, at the end of the term of the present incumbent. Provision has been made for the new director, if appointed from outside the university, to spend up to six months in his or her professional position prior to this date.

Kinetology at Simon Fraser University is an interdisciplinary program of study concerned with mammalian movement and function. Research areas include biochemistry (carniogenesis, free radicals, membrane transport, metabolism), biomechanics, kinanthropometry, motor behavior, and physiology (cardiac, environmental, exercise, muscle, neural).

A critical part of the new director's role will be to lead a new phase of development of the school.

This advertisement is directed to people who are eligible for employment in Canada at the time of application. Others are encouraged to apply but they are not eligible for appointment until a Canadian search is completed and no appointment made. All appointments are subject to budgetary authorization.

Simon Fraser University is situated on top of Burnaby Mountain and serves about 16,000 students. Lying just east of Vancouver, the site commands magnificent views of the Burrard Inlet, the North Shore Mountains, the Fraser River valley, and Vancouver harbor. The mainland area of British Columbia is unique in Canada for its mild climate and varied recreational facilities.

Please address all applications and queries to: Office of the Vice-President, Simon Fraser University Burnaby, B.C., Canada V5A 1S6

Simon Fraser University offers Equal Employment Opportunities to qualified applicants.

PROGRAM DIRECTOR, PLANT-MICROBIE INTERACTIONS. Duties include: to direct program that uses genetic engineering to develop improved strains of rhizobium and assess the efficacy of the strains as agricultural inoculants under field conditions. To direct and carry out research on the genetic manipulation of nitrogen-fixing genes and transport genes to construct strains of Rhizobium with improved nitrogen-fixing ability. To supervise the preparation of regulatory applications to appropriate federal agencies to gain approval for field-testing of the genetically engineered rhizobia. To oversee the design of the field and physiological monitoring programs to evaluate the field performance of the strains and meet regulatory requirements. To coordinate preparation of required documentation by the regulatory agencies. Special requirements include: a doctorate in biological sciences and at least 3 years of relevant experience in the biology of Rhizobium species. Experience in the following areas is required: experience in the genetic manipulation of rhizobial species (particularly Rhizobium meliloti and Bradyrhizobium japonicum) to produce strains with improved nitrogen-fixing ability; the manipulation of regulatory genes required for the expression of nitrogen-fixing genes; the isolation and manipulation of rhizobial genes required for the transport of organic acids; the preparation of regulatory submissions to EPA under TSCA; design of field tests and macrobiological monitoring programs. In addition, a broad knowledge of all aspects of the Rhizobium-legume symbiosis is required. Must also possess a working knowledge of the interpretation of data using statistical methods. Position located in Cambridge, Massachusetts. Salary: $85,000 per annum; 40 hours per week. Send two copies of résumé to: Job Opportunities, Office of Career Services, Department of Employment and Training, Special Programs, First Floor, 19 Stanford Street, Boston, MA 02114. Equal Opportunity/Affirmative Action Employer.

SCIENCE EXHIBIT DEVELOPER. A position is available for someone to develop science exhibits. The exhibits will be designed to promote understanding and relevance to the general public. Responsibilities include: background for higher degrees in a science field. Send application letter, curriculum vitae, and three letters of recommendation to: Director of Human Resources, Museum of Science and Industry, 57th Street and Lake Shore Drive, Chicago, IL 60615.

The Museum of Science and Industry is an Equal Opportunity/Affirmative Action Employer.
CHIEF, NEUROBIOLOGY AND ANESTHESIOLOGY BRANCH

The National Institute of Dental Research (NIDR) invites nominations and applications for the position of Chief, Neurobiology and Anesthesiology Branch (NAB). This is a Civil Service position in the Senior Executive Service with a salary range of $71,200 to $79,200 per annum. The person selected may be eligible for Physician’s Comparability Allowance up to $20,000 per year. A one-year probationary period must be served by the individual selected if not currently in the Senior Executive Service.

The Chief, NAB, is responsible for the scientific and administrative management of a multidisciplinary research program spanning the basic and clinical sciences in oral-facial sen-sation, with emphasis on pain mechanisms and the development of new methods of pain control.

Applicants must meet the minimum educational requirements (or possess equivalent combination of experience and training) for Dental Officer, GS-680, as defined by U.S. Office of Personnel Management Handbook X-118, Qualification Standards for Positions under the General Schedule, which is available in Federal Personnel Offices and Federal Job Information Centers. Further information about the position and qualification requirements may be obtained by contacting Ms. Judith T. Dulovich, (301) 496-6971. An Application for Federal Employment (SF-171), accompanied by a current curriculum vitae and bibliography, should be submitted to:

Ms. Judith Dulovich
National Institutes of Health
Building 31, Room 2C23
900 Rockville Pike
Bethesda, Maryland 20892

Applications must be postmarked no later than May 31, 1990

Selection for this position will be based solely on merit, with no discrimination for non-merit reasons such as race, color, religion, sex, national origin, politics, marital status, physical or mental handicap, age, or membership or non-membership in an employee organization.

NIH is an Equal Opportunity Employer

OCCUPATIONS IN CELL THERAPY

CELLULAR TRANSPLANTS, Inc., a new and rapidly-growing biotherapeutic company located in Providence, Rhode Island, is developing cell therapy, utilizing immunosolation and immunomodulation techniques, for treatment of human disease. Rare opportunities to participate in the genesis and development of core technologies for human health care exist for ideal candidates with the following academic and research credentials:

Neural and Islet Cell Biology
PhD in cell biology or a related field, experience in the isolation and culturing of various primary or transformed cells, and expertise in emerging developments for the therapeutic use of neural tissue, islets, and other cell types for human transplantation.

Biomaterials
PhD in biomaterials or related life science field. Requires ability to describe, correlate, and predict long-term host-implant phenomena. Industrial experience and regulatory exposure helpful.

Biomedical Engineering
PhD in chemical, mechanical or biomedical engineering. Significant experience in biology, physiology, and artificial organs.

Transplantation Immunology
PhD in immunology or related field and experience in the understanding and manipulation of immunological reactions to transplanted allogeneic and xenogeneic tissue, implants, and foreign bodies.

Membranes/Microencapsulation
PhD or equivalent experience in the preparation of commercial membranes (ideally hollow fibers), microcapsules, and/or controlled release devices. Hands-on knowledge of fabrication equipment and techniques essential.

Pre-Clinical Animal Studies
PhD or equivalent experience in the design and implementation of animal studies for the evaluation of host reactions to implants and xenografts and/or animal models for Diabetes and Parkinson’s.

CELLULAR TRANSPLANTS, Inc., offers a stimulating and attractive research environment and the opportunity for collaboration with leading scientists working in related fields. Our New England location and proximity to leading educational institutions provide diverse cultural and recreational challenges. For immediate consideration, please Fax (401) 272-3485 or send your CV and publication list to: Michael J. Lysaght, PhD, CELLULAR TRANSPLANTS, Inc., Four Richmond Square, Providence, RI 02906. No Telephone Calls, Please. CELLULAR TRANSPLANTS is an affirmative action employer.

Cellular Transplants
SEATTLE: The University of Washington, Department of Psychiatry and Behavioral Sciences, seeks DIRECTOR OF RESEARCH or ASSOCIATE DIRECTOR OF HUMAN RESEARCH SOURCES DEVELOPMENT AND TRAINING (two positions) for the newly formed Washington State Mental Health Research and Education Institute. Also sought: molecular geneticist, statistician, MH epidemiologist and clinical psychopharmacologist, and research/clinical laboratory scientist. Send letter of interest and curriculum vitae to: Leonard Heston, M.D., Professor and Director, Washington State Institute, Western State Hospital, Port St. Helens, WA 98644.

ASSOCIATE SCIENCE DIRECTOR
BAT CONSERVATION INTERNATIONAL

Qualifications: Advanced degree in biology with emphasis on ichthyology and/or behavior. Track record of successful grantmanship and publication. Strong program development and management skills. Demonstrated ability to coordinate field research projects. Excellent interpersonal skills and a strong commitment to conservation required. Send résumé to: Bat Conservation International, P.O. Box 162663, Austin, TX 78716.

ENVIRONMENTAL ADVISERS

The U.S. Agency for International Development (AID) is seeking individuals to serve as regional environmental advisers for Central America and the Caribbean on 2-year Personal Services Contracts. These positions are based in Costa Rica, Panama, and the Dominican Republic, respectively. These positions require a minimum of two years of professional experience in environmental management, conservation, and/or renewable resources. Excellent oral and written communication skills in English and Spanish are required. These positions are open to U.S. citizens or permanent residents of the U.S. Salary is $42,000 - $46,000 (range) and includes housing and travel. Interested candidates should send letter of interest and curriculum vitae to: Personal Services Office, AID/U.S. Embassy, Washington, D.C. 20522.

FACULTY POSITIONS

FACULTY POSITIONS IN BIOLOGICAL SCIENCES

The Division of Basic Sciences at the FHCRG has faculty positions available (any rank). The division is a broadly-based, highly interactive group of faculty members conducting research in cellular, molecular and developmental biology. Candidates will be selected primarily on the quality of their research, as opposed to specific topics, but the group is seeking to build strength in specific areas. Full-time, tenure-track positions are available at the assistant professor level in areas of interest to the group. Candidates must have a Ph.D. or equivalent degree in biology or a closely related field and have demonstrated independent research capabilities. Interested candidates should send curriculum vitae, names of three references, and a statement of research goals. Applications should be sent to: FHCRG, University of Washington, P.O. Box 162663, Seattle, WA 98110.

HEAD OF AGRICULTURAL AND RESIDUES SECTION

Applications are invited for the joint FAO/IAEA Division of Nuclear Techniques in Food and Agriculture, Vienna, Austria

Applications should hold a Ph.D. degree in chemistry with specialization in agricultural or environmental chemistry. 15 years of research experience including work with isotopes and radiation in research on pesticides or other agrochemicals and with a good overall knowledge of agrochemical use in agriculture. Relevant experience in developing countries would be an asset. Experience with international programmes and administration desirable.

The Head of the Agrochemicals and Residues Section assists in formulating and guiding the joint FAO/IAEA programme to assist Member States to apply nuclear and related techniques in research relevant to safe and effective use of pesticides and other agrochemicals as well as in the utilization of agricultural wastes.


FACULTY POSITIONS

FACULTY POSITIONS

DEPARTMENT OF MICROBIOLOGY

The Department of Microbiology, at the University of Georgia, invites applications for three tenure track faculty positions in the areas of microbial physiology, molecular aspects of microbial pathogenesis, or immunology. Two positions are available as Assistant or Associate Professor, the third as a senior rank. Teaching and research responsibilities include mentorship of students and residents in expected basic research capabilities, teaching of undergraduate and graduate courses in molecular and cellular biology, with an emphasis on molecular and cell biology and microbiology. Additional responsibilities include participation in departmental and university service activities.

Applicants should be able to obtain funding for their research and be committed to excellence in teaching and research productivity and support. Women and minorities are encouraged to apply. Applicants for all positions are welcome. Responsibilities include the development and maintenance of an independent, externally funded program of research and graduate training, as well as teaching in undergraduate and graduate level courses within the Department. Applicants should send a statement of research and teaching interests and a curriculum vitae to: Microbiology Search Committee, University of Georgia, Department of Microbiology, Athens, GA 30602. Applications received after January 1, 1990 will not be considered.

Cornell University invites applications for an Associate Professor position in cell and molecular biology, with an emphasis on industrial applications. The position is available in the Department of Biology and will involve teaching in the industrial biology option of the Cell and Molecular Biology major as well as teaching and research in the biology major. Preference will be given to applicants who have demonstrated ability to maintain a well-funded research program in industrial biology and to graduate students. The position, which is renewable, begins in September. Applicants should send letter of application, curriculum vitae, and three letters of recommendation to: Committee on the Search for the Associate Professor in Cell and Molecular Biology, Department of Biology, Cornell University, Ithaca, NY 14853. Review of applications will begin December 15, 1990 and continue until the position is filled.

The Department of Plant Pathology and Crop Science at Oregon State University invites applications for a tenure-track position at the level of assistant professor. The position will be located in the Plant Pathology Division of the Department of Crop and Soil Sciences, which is the primary teaching and research unit for plant pathologists at the university. The successful applicant will be expected to develop an independent research program, headed by a research lab and three to five students. Applicants should be able to obtain funding for their research and be committed to excellence in teaching and research productivity and support. Women and minorities are encouraged to apply. Applications should be sent to: Dr. Peter Gump, Director, Plant Pathology Division, Oregon State University, Corvallis, OR 97331-3201. Applications received after January 1, 1990 will not be considered.
IMMUNOLOGIST/ASSOCIATE RESEARCH SCIENTIST

The Surgical Immunology Research Laboratory at the West Haven, Connecticut V.A. Medical Center is looking for a Ph.D. Director to oversee 1-3 surgical resident trainees and participate in studies of lymphocyte signal transduction, neuroenteric mediators of immune function and the effect of immunosuppresives on second messengers and activation events.

A permanent salary line from Bridgeport Hospital funds this geographic full-time position at West Haven, 5 minutes by shuttle bus to the Yale main campus.

Bridgeport Hospital, Yale University and the West Haven V.A. Medical Center are all equal opportunity employers and applications from women and minorities are encouraged.

Send C.V. to: Marvin A. McMillen, M.D., Director, Surgical Intensive Care Unit, West Haven V.A. Medical Center, West Spring Street, West Haven, CT 06516.

BRIDGEPORT HOSPITAL
A century ago, we made a commitment. We’ve kept it. An equal opportunity employer.

UNIVERSITY OF PITTSBURGH
DIRECTOR OF ENVIRONMENTAL HEALTH AND SAFETY

The University of Pittsburgh seeks applications for the newly created position of Director of Environmental Health and Safety, who will report directly to the Associate Vice President for Facilities Management, the University’s chief facilities officer.

The individual selected will recommend appropriate professionals to staff the Health and Safety Department, develop and administer campus policy and procedures concerning all areas of environmental health and safety, and provide consultation and instruction to department heads, faculty, staff, and students in relation to the safe conduct of their respective programs and activities.

Candidates must have: five years of professional experience, preferably with three years administrative experience in higher education; knowledge of relevant regulations; and a master’s degree in engineering, chemistry, environmental health, or other field relating to health and safety. Competitive salary and fringe benefit package offered.

Please send applications before May 25, 1990, to:

Mr. L. Thomas Hussey • Associate Vice President
Facilities Management • B-80 Benedum Hall
University of Pittsburgh • Pittsburgh, PA 15261

An equal opportunity, affirmative action employer.

I.M.V.S.
Institute of Medical & Veterinary Science Adelaide, S.A.

DIVISION OF MEDICAL VIROLOGY
POST-DOCTORAL SCIENTISTS IN VIROLOGY

The Division of Medical Virology includes four research groups studying basic virus pathogenesis, and in addition provides a modern virus diagnostic and reference service to the state of South Australia. Post-doctoral positions are available in each of the following areas:

• **Hepatitis Research Laboratory** - replication and pathogenetic mechanisms of hepatnaviruses and hepatitis delta virus.

  **Enquiries to:** Dr Eric Gowans, telephone (08) 228 7573

• **Herpes Virus Laboratory** - molecular nature of herpes simplex latency.

  **Enquiries to:** Dr Tony Simmons, Telephone (08) 228 7540

• **Human Immunodeficiency Virus (AIDS) Laboratory** - replication cycle and strategy of HIV.

  **Enquiries to:** Dr Li Peng, telephone (08) 228 7574.

Experience in molecular biology is required while experience in molecular virology and/or classical virology are highly desirable.

Positions are available for three years in the first instance with the possibility in some cases of further appointment or tenure. Salaries and conditions will be in accordance with NH&MRC guidelines.

General enquiries to Professor C J Burrell, Head of Division, telephone (08) 228 5434.

Written applications together with curriculum vitae and the name and addresses of three referees should be forwarded to: The Manager, Personnel Services IMVS, PO Box 14 Rundle Mall, Adelaide SA 5000.

Closing date for applications is Friday 29 June 1990.

The Institute is an equal opportunity employer.

BRANCH DIRECTOR
Washington State Mental Illness Research and Education Institute

**Description of Position:** The Washington State Mental Illness Research and Education Institute is seeking a Director to lead its Eastern Washington Branch. The Branch Director will serve as the Associate Director of the Institute and direct its eastern Washington program. The Institute is charged by the Washington legislature to conduct research and educational programs through the state's research universities and mental health facilities.

The Branch Director will conduct his/her own research program and stimulate research at participating institutions. He/she will also coordinate Institute training activities at Eastern State Hospital and in community-based settings. The primary focus includes: (1) Identify biomedical and psychosocial research needs, develop a research agenda, and implement a research program. (2) Identify the staff development/ training needs at Eastern State Hospital and in community mental health organizations; inventory ongoing training activities and evaluate their effectiveness; identify provider institutions; and implement a training agenda in conjunction with those providers.

**Qualifications:**
- Doctorate or equivalent in an academic discipline relevant to mental health
- Demonstrated research and teaching competence sufficient to qualify for a tenured faculty position at Washington State University
- Demonstrated ability to obtain grant support
- Academic leadership ability
- Knowledge of state mental health systems
- Experience with public psychiatric hospital and community mental health systems is highly desirable

**Appointment and Salary:** This is a faculty appointment at Washington State University. Departmental affiliation will depend upon the candidate's academic preparation. Salary will be competitive with equivalent academic positions.

To apply send a vita, cover letter summarizing your interest in and qualifications for the position together with your thoughts about the role of mental illness research and training in the process of change in mental health systems, and three original letters of reference to:

Dr. Harold Mielke, Chair
Search Committee for the Branch Director
Washington State University at Spokane
West 661 First Avenue
Spokane, WA 99204-5399

Final screening will begin on May 31, 1990 and continue until the position is filled.

Washington State University is an equal opportunity/affirmative action educator and employer. Protected group members are encouraged to apply.
STAFF FELLOW
(General Range $24,000 to $46,861)
OR
VISITING ASSOCIATE
(General Range $25,000 to $35,825)
(Starting salaries will be commensurate with experience)

A position is available for a staff fellow or visiting associate in the Cellular and Genetic Toxicology Branch, Division of Toxicology Research and Testing of the National Institute of Environmental Health Sciences, one of the institutes of the National Institutes of Health. Both U.S. citizens and non-citizens may apply.

This post will require an individual to develop and assess techniques to examine DNA modifications (DNA adduction and its repair; methylation of CpG sequences that may be related to gene expression) at specific genes and to relate these effects to biological endpoints such as mutation and neoplasia. Candidates should have a Ph.D. degree in a related biological discipline preferably with several years relevant experience in gel electrophoresis, Southern blot analysis, DNA sequencing techniques and the handling of radiochemicals. Experience with 32P postlabeling and nuclear fragment analysis methods for the detection and quantitation of adducts formed between DNA and carcinogenic and mutagenic chemicals would be helpful.

Applicants should send resumes, names of references (with telephone numbers) and a brief description of previous research experience by June 1, 1990, close of business, to:

Ms. Norma Daye (Code: HNV19)
NIHES Personnel Office
P. O. Box 12233
Research Triangle Park, NC 27709

NIH is an Equal Opportunity Employer

POSITIONS OPEN
FACULTY POSITION
A senior position is available for an investigator interested in pursuing studies on biological response modifiers on appropriate models for human health. Both U.S. and non-U.S. candidates are encouraged to apply.

This position requires extensive teaching to radiology and nuclear medicine residents. Equipment includes five computers and seven Gamma cameras. Applicants please send curriculum vitae to: Dr. Carlos Bekerman, Director, Division of Nuclear Medicine, Michael Reese Hospital and Medical Center, Lake Shore Drive at 31st Street, Chicago, IL 60616. Equal Opportunity/Affirmative Action Employer.

GLOBAL CLIMATE CHANGE ADVISERS
The U.S. Agency for International Development (AID) is seeking two individuals to serve as global climate change advisers on 2-year Personal Services Contracts. These positions will be based in Brasilia, Brazil, and Mexico City, Mexico. Main responsibilities include advising on the most cost-effective and environmentally sound approaches to mitigate greenhouse gas emissions, particularly those from deforestation and fossil fuel burning, and assisting in managing projects which address these issues. Knowledge of international climate change negotiations is desirable. Minimum qualifications include: (i) an advanced degree or equivalent experience in an environmental or energy discipline, e.g., forestry, ecology, energy, or environmental planning; (ii) 3 years of relevant experience working in developing countries in such areas as forestry, watershed management, environmental planning, energy planning, etc.; (iii) fluency in English and Spanish; (iv) strong computer skills; (v) U.S. citizenship. Send cover letter and resume to Dr. Lloyd, Sloan-Kettering Institute, 1275 York Avenue, New York, NY 10021. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL ASSOCIATE
(Ph.D. or M.D.)
To study the role of the structure on major histocompatibility complex I proteins in antigen presentation by T cells. Opportunities are available to learn the techniques of molecular biology, protein chemistry, and cellular immunology, as well as to develop an independent line of inquiry. Applicants should send curriculum vita, official transcripts (sent directly from the institution), a brief statement of research interests, and the names of three references, to: Dr. H. A. Moyer, Search and Screen Committee Chair, Postdoctoral Research Laboratory, 6001 Imperial Highway, Suite 310, Los Angeles, CA 90045. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL ASSOCIATE
(Ph.D. or M.D.)
To study the regulation during erythropoiesis of the thalassaemia genes. Applicants should send curriculum vitae, list of publications and a brief description of previous research experience to: Department of Molecular Biology and Immunology, University of North Carolina at Chapel Hill, CB#7250, 1004 FLOB, Chapel Hill, NC 27599. The University of North Carolina is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL ASSOCIATE
REGULATION DURING ERYTHROID DIFFERENTIATION
THE UNIVERSITY OF GEORGIA (UGA)
A postdoctoral position is available to study either the regulation of gene expression during erythroid differentiation in cultured MEL cells or the molecular basis of the genetic defects protoporphyrin IX and variegate porphyria. Candidates must have a minimum of 2 years experience with molecular biology and cell culture techniques. A strong background in either biochemistry with basic recombinant DNA techniques or molecular biology is preferred. Please send curriculum vitae and a list of three references:

Dr. Harry A. Dally,
Department of Microbiology
The University of Georgia
Athens, GA 30602

UGA is an Equal Opportunity/Affirmative Action Institution.

NIH is an Equal Opportunity Employer

Two POSTDOCTORAL POSITIONS available immediately: (i) NIH-funded project investigating phosphorylated neurofilament protein expression in normal and neurodegenerative disease tissues. Experience in protein chemistry desirable (Dr. G. S. Bennett). (ii) Funded project to study molecular and cellular aspects of protein trafficking in nerve cells. Postdoctoral in molecular biology preferred. (Dr. G. M. Small). Apply to: Department of Anatomy and Cell Biology, Box J-235, University of Florida, Gainesville, FL 32610.

POSTDOCTORAL POSITION
Available immediately for Ph.D. or M.D. to study the immunohistochemistry of human tumor antigens with a special emphasis on human monoclonal antibodies and carbohydrates. Experience in immunohistochemistry, monoclonal antibodies, or carbohydrate chemistry highly desirable. Send curriculum vitae and names of three references to: Dr. Kenneth O. Lloyd, Sloan-Kettering Institute, 1275 York Avenue, New York, NY 10021. Equal Opportunity Employer, Men/F/W/V.

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Amylin Corporation has assembled a research team to pursue the pharmaceutical implications of the recent discovery of amylin, a 37 amino acid peptide secreted by pancreatic beta cells (see: Cooper et al., Biochimica et Biophysica Acta (1989) 1014, 247-58.) The company's goals include discovery and development of compounds for treating diabetes and conditions secondary to insulin resistance.

CELLULAR ENDOCRINOLOGY

The successful candidate will have a Ph.D., a strong background in mammalian cell physiology, and biochemical expertise with peptide mediators and/or signal transduction. Familiarity with the preparation of tissues and cell cultures in vitro studies is required. Experience in the pharmaceutical industry is desirable but not essential.

PHARMACEUTICAL PEPTIDE CHEMISTRY

This scientist will lead studies of peptide formulation, stability and drug delivery as part of our pharmaceutical development program. Candidates must have a Ph.D. and at least two years of relevant experience.

Amylin offers a stimulating and challenging opportunity to participate in a new area of biomedical science, as well as an excellent compensation and benefits package which includes equity participation. Individuals with appropriate experience and a desire to broaden their career opportunities should reply to: Audrey H. McGovern, Administrative Assistant. Amylin Corporation is an equal opportunity employer.

Amylin Corporation
9373 Towne Centre Drive
Suite 250
San Diego, CA 92121
Tel. (619) 552-2200
Fax (619) 552-2212

POSTDOCTORAL POSITION

EXPERIMENTAL PATHOLOGY

Hoffmann-La Roche, an international leader in pharmaceutical and medical research and development, is seeking a Postdoctoral Fellow to study the pathophysiology of cytokine-induced alterations in hematopoietic tissue within our Department of Investigative Toxicology. This department is comprised of a multidisciplinary group whose primary responsibilities are 1) the evaluation and screening of novel pharmaceuticals before they are approved for full development, 2) research into mechanisms of efficacy and/or toxicity of pharmaceuticals under development, and 3) research into basic mechanisms of biologic development and disease.

The successful candidate will characterize the interactions between stromal and hematopoietic cells in both in vivo and in vitro systems of cytokine-enhanced hematopoiesis. Techniques utilized will include light and electron microscopy, immunohistochemistry, and those of molecular biology, in particular nucleic acid hybridization. A background in experimental pathology or molecular biology is required, experience with cytokines or colony stimulating factors is desirable.

Hoffmann-La Roche Inc., Nutley, New Jersey 07110. We are an equal opportunity employer.

Hoffmann-La Roche
Working Today For A Healthier Tomorrow.

R&D SPACE SYSTEMS LIFE SUPPORT SCIENTISTS & ENGINEERS

The BIONETICS Corporation, a life sciences Contractor to NASA, Ames Research Center has current openings for highly qualified scientists and engineers to provide services in the field of Advanced Regenerative Life Support Systems in support of the Space Program. These openings exist in the Scenic San Francisco Bay area and will provide the opportunity for advanced professional growth while allowing an exciting lifestyle. Specific requirements for the ADVANCED LIFE SUPPORT DIVISION are as follows:

CHEMICAL ENGINEER/PHYSICAL SCIENTIST

Immediate opening to work with NASA’s Bioregenerative Life Support System Program. Must have at least 2-5 years experience preferably in gas separation. Will be developing a gas separation system for a crop research chamber with a filtration system to separate out oxygen, CO2, and nitrogen independently. Will interact closely with design engineers. At least a BS in a relevant discipline is required.

PLANT SCIENTIST/BIOLOGIST

Immediate openings to work with hydroponics systems for recycling grey water. Must have at least 2-5 years experience in plant growth. Will be using the recovered products of waste processing for nutrients in hydroponic cultures of crop plants. At least a BS in a relevant discipline is required.

Bionetics offers qualified applicants the opportunity to join our nationwide family of over 1800 employees. We offer very competitive compensation and fringe benefits. Interviews will be conducted in the very near future. All applications will be kept confidential. Send current resume with recent salary history to: Mr. John A. Aldredge, Corporate Recruiter.

the bionetics corporation

2 Eaton St., Suite 1000, Hampton, VA 23669
(800) 868-0330
EOE m/f/h/v
POSITIONS OPEN

TWO POSTDOCTORAL POSITIONS are available at the Department of Pharmacology, the biology and pharmacology of NMDA receptors, and their influence on the input-output relation of hippocampal neurons. The projects involve electrophysiology and behavior. Applicants should send curriculum vitae, statement of research interests, and three letters of reference to: Dr. G. Barrowe, Division of Pharmacology, Department of Medicine, University of Pennsylvania, Philadelphia, PA 19104-8853.

POSTDOCTORAL POSITION. In pharmacological modulation of plasminogen activator synthesis in endothelial cells. Available immediately. Primary focus on characterization of mechanisms underlying enhanced gene expression after selective pharmacological agents. Techniques employed include endothelial cell cultures, measurements of individual plasminogen activators and their mRNAs, cell growth and differentiation, and analysis, and in situ hybridization. Ph.D. degree and/or experience in molecular biology desirable. Send curriculum vitae and names of three references to: Dr. Thorir Bjornsson, Division of Clinical Pharmacology, Department of Medicine, Jefferson Medical College, 1208 Locust Street, Philadelphia, PA 19107-5853.

POSTDOCTORAL POSITION. Conduct research to elucidate molecular mechanisms of insulin and related growth factor action. Study biochemical pathways involved in insulin action and in transformation. Biochemical assays include immunoprecipitation, protein assays, antibody precipitates, and measurement. Complete curriculum vitae and three letters of reference to: Dr. D. O'Brien, Box 97, Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, New York, NY 10021.

POSTDOCTORAL POSITION. Available immediately to study the molecular mechanisms of fast and slow action potential propagation in skeletal muscle. Application research experience is required. Excellent support and fellowship available. Send curriculum vitae and names of three references to: Dr. S. Ishikawa, Department of Molecular Endocrinology, The Salk Institute for Biological Studies, La Jolla, CA 92037. Telephone: 619-450-4221. FAX: 619-536-9473.

UNIVERSITY OF MINNESOTA DEPARTMENT OF PHARMACOLOGY

POSTDOCTORAL POSITIONS

The Department of Pharmacology at the Medical School of the University of Minnesota has several open positions available in several areas of research including:

- Neuropeptides: biochemical and molecular pharmacology, neurochemistry
- Drug and transmitter receptors: molecular biology
- Intracellular electrophysiology: excitation and/or acidosis and opioids
- Ethanol: membrane structure and function
- Neurochemopharmacology/toxicology: neuroscience, behavior, learning, and memory
- Neuronal ion regulation: neurodegeneration, cell signaling mechanisms
- Anticancer drugs: mechanisms of action, resistance, metabolism
- Developmental studies: aldhyde dehylogenases and reductases, toxicology

Applicants should send curriculum vitae, statement of research interests, and three letters of reference to: Dr. N. E. S. Orlin, Department of Pharmacology, 402 Millard Hall, University of Minnesota, Minneapolis, MN 55455.

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

SCIENCE, VOL. 248
PHARMACOKINETICS

Applications are invited from research scientists with a Ph.D. in Pharmacology or Pharmacokinetics interested in joining Agouron's exciting receptor-based drug design projects at our laboratories in La Jolla. The successful candidate will design and conduct investigations of the pharmacokinetics and metabolism of drug candidates in animals. Responsibilities will include the development of analytical procedures to monitor drugs and metabolites as well as a close involvement with in vivo efficacy trials. We are seeking an individual with 2-5 years of industrial experience who is enthusiastic about working as part of a team and who would enjoy interacting with colleagues in biology, biochemistry, organic chemistry and x-ray crystallography. Compensation package includes stock option plan. Please apply with curriculum vitae and names of references to:

Human Resources Dept. SW

Agouron Pharmaceuticals, Inc.
11025 North Torrey Pines Road
La Jolla, California 92037

POSTDOCTORAL RESEARCH NEUROPSYCHOLOGIST

The Child Psychiatry Branch of the National Institute of Mental Health seeks a Ph.D. neuropsychologist to design and carry out clinical studies with developmentally disabled children and adults. Studies with Positron Emission Tomography and Magnetic Resonance Imaging are ongoing. Starting salary negotiable, commensurate with experience. Interest in developmental neurobiology, neuroanatomy and new brain imaging technology is highly desirable. Send curriculum vitae and three references with telephone numbers to:

Judith L. Rapoport, M.D.
Child Psychiatry Branch
NIMH/NIH
Building 10/Room 6N240
9000 Rockville Pike
Bethesda, Maryland 20892

Women and minorities are encouraged to apply.

NIMH is an Equal Opportunity Employer

POSTDOCTORAL FELLOWSHIP—CELL BIOLOGY

The Department of Cellular & Molecular Biology in the Merck Sharp & Dohme Research Laboratories has an immediate opening for a postdoctoral fellow to study and manipulate protein secretion in mammalian cells engineered to express recombinant proteins. Investigations will involve the role of molecular chaperones, metabolites and nutritional and environmental factors in mediating the efficiency of post-translational processes. Candidates should have training in cell biology, some experience in molecular biology and a strong interest in the metabolic pathways and processes that support protein translation, post-translational modification and secretion. A knowledge of intermediary metabolism is also highly desirable. This position offers the unique opportunity to collaborate with molecular biologists, analytical biochemists, and biochemical engineers in our department on projects related to therapeutic protein products and proteins which are potential drug targets.

Merck Sharp & Dohme Research Laboratories is located in Rahway, New Jersey approximately 25 miles from New York City. Our facilities are state-of-the-art and our renowned research environment is excellent. For consideration, send your resume with the names of three references to Susan R. Jenkins, Merck & Co., Inc., P.O. Box 2000, Rahway, NJ 07065.

An equal opportunity/affirmative action employer m/f/vh

Merck & Co., Inc.

Fermentation Development Microbiologist

Pfizer, a research-driven, Fortune 100 leader in the health care industry, can offer all the opportunity, responsibility and growth that you can manage.

As part of a dynamic team within our bulk chemical and pharmaceutical production facility in Groton, Connecticut, you will take on a variety of critical challenges. These include: maintaining/evaluating production cultures, developing culture strains and conducting laboratory scale projects. You will consult with production, research and engineering principals on operating techniques, train laboratory technicians in culture handling and mutation techniques, and help supervise controlled environment areas, as well as optimize fermentation of existing products.

Qualifications include a minimum of an MS degree in Microbiology combined with 3-5 years in a production/manufacturing environment involving process scaleup and development.

We offer an excellent salary, outstanding benefits, ongoing growth potential and an attractive Connecticut shore location. For immediate, confidential consideration, please forward resume and salary history to: Mr. R. Hightower, Pfizer Inc., Chemical Division, Eastern Point Road, Groton, Connecticut 06340. An equal opportunity employer.
**POSTDOCTORAL POSITION** Available to study repair of radiation-induced DNA damage in human cells. Specific research areas are the identification and characterization of human DNA repair enzymes, mechanistic studies of DNA repair inhibitors, and modulation of cellular DNA repair responses by DNA repair enzymes. Experience in molecular biology, biochemistry, or radiation biology is required. Interested individuals should submit a vitae and names of three references to: Dr. Timothy J. Jorgensen, Department of Radiation Medicine, Georgetown University Medical Center, 3800 Reservoir Road, N.W., Washington, D.C. 20007. Georgetown University is an Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL FELLOWSHIPS**

The George S. Wise Faculty of Life Sciences at Tel Aviv University offers each year postdoctoral fellowships commencing on 1 October in basic and applied biology. The faculty is engaged in such research areas as anatomy, taxonomy, and physiology of animals and plants; sociobiology; marine biology; ecology and evolution; entomology; cellular and molecular biology and genetics; lipid and protein research; bioenergetics; neurobiology; immunology; virology; cancer biology; biotechnology, and bioenergetics.

Application forms can be obtained from: The Dean, The George S. Wise Faculty of Life Sciences, Tel Aviv University, Tel Aviv 69978, Israel. Deadline for applications is 30 June of each year.

**POSTDOCTORAL FELLOWSHIP**

Two positions are available after 1 July 1990 for studies on the biochemistry and molecular biology of isoprenoid metabolism. Of particular interest are studies on the translational control of HMG-CoA reductase and characterization of post-translational modification of nuclear lamina proteins by isoprenoids. Grant support for this program has been obtained for at least 3 years. Please send curriculum vitae to: Dr. Michael Sinensky, Blaustein Institute, The George Washington University, 9199 Gaylord Street, Denver, CO 80206. The Elrone Roosevelt Institute is an affiliate institute of the University of Colorado Health Sciences Center.

**POSTDOCTORAL FELLOWSHIP**

Clinical Chemistry Program

The Department of Pathology is recruiting an individual with Ph.D. and/or M.D. degrees possessing outstanding credentials and strong motivation for training in clinical and biochemical sciences. This is an opportunity to pursue advanced training in an active university medical setting. We offer a 2-year program emphasizing both clinical training and active involvement in research. A PhD is an integral part of the pathology residency training, and is affiliated with the biochemistry and pharmacology/toxicology departments.

Interested candidates should contact: Dr. Roland Valdes, Jr., Department of Pathology, University of Louisville School of Medicine, Louisville, KY 40292.

**POSTDOCTORAL FELLOWSHIPS**

Molecular Neuroimmunology and Neuroimmunomodulation at the University of Alabama at Birmingham (UAB) are available 1 July 1990. The National Science Foundation (NSF) Training Grant for basic scientists or clinicians to conduct research on the molecular basis of neuroimmunology, neuroimmunomodulation, and the bidirectional communications between the nervous and immune systems. Preceptors and areas of interest are as follows: E. N. Benveniste, Ph.D. (cytokines and glia); J. E. Blalock, Ph.D. (neuroimmunomodulation: lymphocyte-derived hormones); E. J. Droppo, M.D. (paracaspases and neurological disorders); M. L. Egan, Ph.D. (neuroimmunology and immunity); G. Y. Gill, Ph.D. (immune response to glioma tumors); J. D. Neill, Ph.D. (neuro-endocrinology); D. A. Weigent, Ph.D. (growth hormones and the immune system); and J. N. Whitaker, M.D. (infectious disease and degranulation of myelin basic protein). Interested applicants should submit a letter stating their qualifications, a curriculum vitae, and names of three references by 23 May 1990 to: John N. Whitaker, M.D., Department of Neurology, University of Alabama at Birmingham, Birmingham, AL 35294. Telephone: 205-934-2402. UAB is an Affirmative Action/Equal Opportunity Employer.

**RESEARCH ASSISTANT**

A research-oriented person to assist in data management and analysis for medical research project. B.S./M.S. in relevant biological or chemical program skills. Tuition benefits. Send letter and résumé to: James Zablotsky, George Washington University Biostatistics Department, 611 23rd St., Suite 200, Washington, D.C. 20037. Equal Opportunity Employer.

**RESEARCH ASSISTANT**

A research-oriented person to assist in data management and analysis for medical research project. B.S./M.S. in relevant biological or chemical program skills. Tuition benefits. Send letter and résumé to: James Zablotsky, George Washington University Biostatistics Department, 611 23rd St., Suite 200, Washington, D.C. 20037. Equal Opportunity Employer.

**POSTDOCTORAL RESEARCH ASSOCIATE**

Postdoctoral position: molecular biology and genetic transformation in marine algae. Ph.D. and experience in molecular biology techniques required. Experience with culture of marine algae desirable. Send résumé and three letters of recommendation by 1 June 1990 to: Dr. Subhash C. Minocha, Department of Plant Biology, University of New Hampshire (UNH), Durham, NH 03824. Telephone: 603-862-2844. UNH is an Affirmative Action/Employer.

**POSTDOCTORAL RESEARCH IN PROTEIN STRUCTURE, DYNAMICS, FUNCTION**

Postdoctoral positions are available to study front line problems in protein structure and function by use of advanced hydrogen exchange, NMR, and other physical/chemical methods. Competitive salary. Please send curriculum vitae and statement of research interests and ask that letters of reference be sent to: S. W. Englander, Department of Biochemistry and Biophysics, University of Pennsylvania, Philadelphia, PA 19104-6059.

**POSTDOCTORAL RESEARCH ASSOCIATE**

Brookhaven National Laboratory. The Biology Department has a position available for a recent Ph.D. in biochemistry or related degree with experience in electron microscopy. The successful candidate will conduct research using new organometallic immunolabels and their application to cellular superstructure mapping. Applicants should submit curriculum vitae with a list of publications, a statement of research interests, and names of three references to: Dr. James F. Hainfeld, Biology Department, Brookhaven Laboratory, Associated Universities, Inc., Upton, L.I., N.Y. 11973. Telephone: 516-282-3372. Equal Opportunity Employer, M/F.

**POSTDOCTORAL RESEARCH SCIENTIST**

Columbia University Orthopaedic Research Laboratory. A position is available for an enthusiastic Ph.D. to study the biochemistry of cartilage and other connective tissues utilizing molecular, biochemical and biophysical techniques. A competitive salary range of $28,000 to $35,000 per annum is being offered. Interested candidates should send their curriculum vitae to: A. Ratcliffe, Ph.D., Orthopaedic Research Laboratory, Columbia-Presbyterian Medical Center, 630 West 168th Street, BB-1412, New York, NY 10032.

**RESEARCH SCIENTISTS**

Research positions available for studies in cancer research. Qualified applicants should possess a Ph.D. in a biological science. Experience in biochemical/molecular biological/tissue culture/microscopy imaging methods is highly desirable. Send curriculum vitae, references (three letters of recommendation by use of academic/medical/research experience), salary history, and a cover letter. Equal Opportunity Employer.

**RESEARCHER**


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**Faculty Positions in Biochemistry or Tumor Cell Biology**

St Jude Children's Research Hospital

St Jude Children's Research Hospital, a private research institute, is engaged in a major expansion of its facilities and scientific activities. A new research building to be completed in early 1991 will provide 240,000 square feet of new laboratory space which will house the institute's basic science programs. As part of this expansion, new faculty positions are being offered in Departments of Biochemistry and Tumor Cell Biology. Although preference will be given to applicants who have recently completed postdoctoral training and are seeking positions at the level of Assistant Member, more senior investigators with appropriate research interest and qualifications will be considered for positions of higher faculty rank. Candidates with programs focusing on the regulation of cell growth, differentiation and transformation, the biochemistry and molecular biology of signal transduction, and mechanisms of gene regulation are particularly encouraged to apply. Opportunities exist for collaborative interactions with ongoing basic research programs in Virology and Molecular Biology, Immunology, and Pharmacology, as well as with clinical investigators in Hematology/Oncology and Infectious Disease. In addition to new facilities and excellent start-up funds, salaries are nationally competitive and include a generous benefits package. A strong institutional commitment to its faculty ensures stability in program development and continuity of research activities. Applicants are required to submit a current curriculum vitae, a letter summarizing their research accomplishments and goals, and the names of three references to either:

James N. Ihle, Ph.D.
Chairman, Department of Biochemistry

or

Charles J. Sherr, M.D., Ph.D.
Novartis Professor of Oncology
Chairman, Department of Tumor Cell Biology
St Jude Children's Research Hospital

8800 Alvarado Lndswy

Memphis, TN 38105

St Jude Children's Research Hospital is an Equal Opportunity Employer.
**Immunology/Inflammation**

**Group Leader Position**

Searle Research & Development is seeking two individuals to fill complementary group leader positions in its St. Louis laboratories. Each will be responsible for leading a team of scientists in the discovery of new drug candidates for the treatment of autoimmune and inflammatory diseases. We are looking for qualified candidates with an M.D. or Ph.D. and a strong record of accomplishment in at least one of the following areas: immunoregulation, cell-cell interaction in autoimmune inflammatory disease models, antigen processing and presentation, T-cell effector function, and eicosanoid regulation of the inflammatory and immune response. Candidates must have a record of publication demonstrating ability to lead independent and creative research. Expertise in cellular immunology and immunopharmacology is required and experience in working in a collaborative team environment is preferred.

Searle, a wholly owned subsidiary of Monsanto Company, offers competitive salary and benefit plans. Qualified applicants should send resumes in confidence to: Joan M. Lineberry - MCB2; Searle, BB4E; 700 Chesterfield Village Parkway; St. Louis, MO 63196. An Equal Opportunity Employer.

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**JPL/NASA VISITING SENIOR SCIENTISTS**

**EARTH SCIENCE AND APPLICATIONS DIVISION**

**Earth Observing Systems**

The Jet Propulsion Laboratory invites applications to its Visiting Senior Scientist Program in the Earth Observing System Program.

An opening exists for a Visiting Senior Scientist with a strong background in Earth Sciences to work with the Earth Observing System (Eos) Program Scientist at NASA Headquarters in Washington, D.C. The individual selected will be expected to represent the interests of the research community with particular emphasis on the performance specifications for spaceborne sensors and the ground-based Data and Information System. Prospective candidates must hold a Ph.D. (or have equivalent training and experience) in terrestrial hydrology, ecology, geology, geophysics or a closely related field. Appointees are encouraged to maintain their research base while at NASA. Monthly two-day visits to the appointee’s home institution are encouraged and supported. Financing of travel to scientific meetings and publications is also available.

Tenured faculty members are the preferred choice with a desired start date in the early summer of 1990. Appointees must be U.S. Citizens or Permanent Residents and are expected to return to their home institution following their NASA assignment. Frequent domestic foreign travel and residence in the Washington, D.C. area will be required. For more information about the scope of the program and position responsibilities, contact Dr. W. Stanley Wilson at NASA headquarters, (202) 453-1725.

Please provide curriculum vitae, bibliography and the names of four references to Department T-64.

Dr. Harry Ashkenas 180-900
Jet Propulsion Laboratory
4800 Oak Grove Drive
Pasadena, CA 91109
(818) 395-4531
Equal Opportunity Employer

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**Protein Chemistry/Instrumentation**

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The Protein Chemistry Department of the Medical Research Division of American Cyanamid is seeking a Scientist who is interested in working in a highly integrated, competitive research environment comprised of Molecular Biologists, Cell Biologists, Physiologists and Protein Chemists. The Molecular Biology Research Section focuses on research exploring the structures and functions of growth factors/cytokines, oncogenes, and viral proteins for the purposes of better understanding the molecular and cellular mechanisms of diseases and for identifying new drug targets.

We are seeking a Protein Chemist who will take full responsibility for the operation of a laboratory fully equipped with state-of-the-art protein chemistry instrumentation, including Applied Biosystems Protein Sequencer, Peptide Synthesizer, Amino Acid Analyzer, Micro-HPLC, etc. The incumbent will collaborate with other scientists on departmental research projects, and she/he will have a strong interest in solving research problems using the most advanced methodology.

The successful candidate will need a degree, preferably a M.S., or B.S. in Analytical Biochemistry, or an equivalent degree, with 3-5 years of professional experience in operating and maintaining state-of-the-art protein chemistry instrumentation, in particular the gas-liquid phase protein sequencer. A desire for team work, superior technical skills, and a dedication to excellence in performance are essential. Experience in Protein Chemistry Core Facility operations is highly desirable.

American Cyanamid, Lederle Laboratories, is an established leader in pharmaceutical research and is located in Pearl River, approximately 25 miles north of New York City. We recognize the importance of this position and are prepared to offer an exceptional compensation package to individuals with the required professional experience. In addition to an outstanding compensation, we also offer comprehensive benefits including 401K savings plan. For consideration, please send your resume and the names of three references to: Professional Employment Office, Dept. P.B., Lederle Laboratories, Pearl River, NY 10965. An Equal Opportunity Employer m/f.
POSITIONS OPEN

IMMUNOLOGIST/ASSOCIATE RESEARCH SCIENTIST

The Surgical Immunology Research Laboratory at the West Haven Veterans Administration (VA) Medical Center is looking for a Ph.D. DIRECTOR to oversee one to three surgical resident trainees and participate in studies of lymphocyte signal transduction, neuroendocrine mediators and cytokine function, and studies of immunomodulators on second messengers and activation events. A permanent salary line from Bridgeport Hospital is available for full-time positions at West Haven, 5 minutes by shuttle bus to the Yale main campus. Bridgeport Hospital, Yale University, and the West Haven VA Medical Center are Equal Opportunity Employers and applications from women and minorities are encouraged. Send curriculum vitae to: Marvin A. McMullen, M.D., Director, Surgical Intensive Care Unit, West Haven VA Medical Center, West Spring Street, West Haven, CT 06516.

MOLECULAR VIROLOGY RESEARCH

MAYO CLINIC–ROCHESTER

The Division of Experimental Pathology and Laboratory Medicine at Mayo Clinic, Rochester, Minnesota, is seeking an established investigator to carry out a program of basic research on molecular mechanisms and pathogenesis of herpesvirus infections. Candidates for this staff position must be U.S. citizens or permanent residents trained in molecular virology techniques with an established track record of successful investigation in the field of virology. This is an excellent opportunity for an individual to carry out basic research in a clinical environment. We seek an individual who is interested in the problems of viral latency and reactivation in organ transplantation. State of the art facilities, space, equipment, and start-up support and the extensive resources of the Mayo Clinic research community will be available to the incumbent. Qualified candidates should submit detailed curriculum vitae and a letter to: Thomas P. Moyer, Ph.D., Department of Laboratory Medicine and Pathology, Mayo Clinic, Rochester, MN 55905.

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REPRODUCTIVE BIOLOGIST (RESEARCH)

Located at the National Zoological Park, Washington, D.C. The incumbent will provide expertise for developing a genetic resource bank for rare wild species. The multidisciplinary skills of the incumbent will assist expanding existing research in cryobiology, endocrinology, andrology, embryology, and fertility/infertility. These projects are oriented to the maintenance of genetic and biodiversity through the cryopreservation of germ plasm and the development of technology for understanding and promoting reproduction in wildlife species. The incumbent will be required to conduct independent research in a reproductive biology laboratory which enhances the ability of a germ plasm repository, including developing germ plasm cryopreservation techniques, evaluating sperm function, and/or monitoring endocrine activity. The incumbent will be required to devote major efforts to securing extramural research support. Candidates must have: a Ph.D. or equivalent doctoral degree; reproductive research experience in a variety of animal species; skills in sperm assessment and cryopreservation, as well as radioimmunoassay of steroid hormones; and a record of publications in highly respected scientific journals. To request an application package, write: Smithsonian Institution, Office of Personnel Administration, Branch 3, P.O. Box 23394, Washington, DC 20044-3394, Attention: #90-3508. due: 02-28-73, 305, by 30 May 1990. The Smithsonian Institution is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

ASSOCIATE PROFESSIONAL SCIENTIST. To carry out research in atmospheric chemistry. This includes reading and summarizing the literature, planning experimental programs (including quality assurance procedures), collecting appropriate samples in the field, analyzing samples in the laboratory, interpreting and analyzing results using statistical methods, including receptor modeling, and reporting results via contract reports, conference presentations, and journal articles. Initial efforts will focus on mechanisms of stratospheric mixing of gas and particulate material, as well as on the effects of aerosols on cloud and precipitation processes. Submit, with curriculum vitae, three letters of recommendation, and copies of reprints of any published works. Send complete application to: J. B. MacIntyre, Dep. of Atmospheric Science, Colorado State University, Fort Collins, CO 80523.

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TECHNICAL SALES REPRESENTATIVE

Stratagene, an innovator supplier of molecular biology products, is expanding its sales force across the United States and is in search of qualified and experienced technical sales representatives. These positions represent a unique opportunity for qualified individuals wishing to grow in a growing technical sales organization. A position is available immediately in the Mid-West and other openings will become available during 1990. Candidates should have practical experience in molecular biology or related field. Prior sales experience is beneficial. Sales representatives will attend an extensive 1-month training program at our beautiful coastal location in La Jolla, California. Stratagene offers excellent company benefits including a 401K Plan and a competitive salary and incentive program. All qualified candidates forward résumé of qualifications to:

Stratagene
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TECHNICAL SPECIALISTS. Emory University Hospital in Atlanta, Georgia. HEMATOLOGY. Recruiting for technologist with experience in molecular biology to perform molecular biology testing as it applies to the diagnosis of hematologic malignancies. Potential for supervisory responsibilities. Requires MT (ASCP) or equivalent registry with 3 years of related experience or master's degree with 1 year or bachelor's degree and 3 years of experience in molecular biology in lieu of certification. BLOOD BANK: Recruiting for technologist with theoretical and working knowledge of basic and advanced hematology and immunohematological methods and the ability to adapt this knowledge to the area of transfusion medicine. Requires master's degree in related specialty and 4 years of experience or bachelor's degree and 6 years of related experience. To apply, call or send résumé to: Emory University Hospital, Personnel Department, 637 Asbury Circle, Atlanta, GA 30032. Telephone: 404-777-7611. An Equal Opportunity/Affirmative Action Employer.

WATER QUALITY SPECIALIST

Industry has an immediate opening for an environmental specialist or engineer. Minimum requirement: B.S. degree in civil, environmental engineering, or related field and 3 to 5 years of experience in environmental work. Salary commensurate with experience. Send résumé in confidence to: P.O. Drawer 1208, Clewiston, FL 33440, Attention: Ed Barber.

ANNOUNCEMENTS

CALL FOR POSTERS

The Center for Alternatives to Animal Testing at the Johns Hopkins School of Public Health is sponsoring its seventh international symposium.

IN VITRO TOXICOLGY: MECHANISMS AND NEW TECHNOLOGY

27 TO 29 NOVEMBER 1990

This symposium will be held in Baltimore, Maryland. We encourage the submission of abstracts for poster presentations. Posters of academic endeavors and organizations offering products of importance to in vitro toxicology studies are encouraged. To request poster presentation instructions, please contact: Mrs. Jeannene Tyle, The Johns Hopkins Center for Alternatives to Animal Testing, 615 North Wolfe Street, Baltimore, MD 21205. Telephone: 301-955-3343. FAX: 301-955-0258. Deadline for submission of poster abstracts: 30 October 1990.

POSTDOCTORAL POSITIONS AVAILABLE

AT THE UNIVERSITY OF PENNSYLVANIA

SMELL AND TASTE CENTER

Beginning June 1, 1990, the University of Pennsylvania Smell and Taste Center will have available postdoctoral positions in the fields of neurophysiology, animal behavior/physiological psychology, human sensory psychophysics, and patient data base management/computer science. Salaries commensurate with qualifications and experiences. Send curriculum vitae and names of three references to Richard L. Doty, Ph.D., Director, Smell and Taste Center, Hospital of the University of Pennsylvania, 3400 Spruce Street, Philadelphia, PA 19104-4283. The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.

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DOE HUMAN GENOME PROGRAM
ANNOUNCEMENT OF SPECIAL RESEARCH GRANTS

The U.S. Department of Energy (DOE) announces its 1990 Special Research Grants competition in support of the Human Genome Initiative. Several research goals are encompassed in the March 21, 1990, Federal Register Notice 90-5, Vol. 55, pg. 10486, supporting research and conferences for:

(1) Development of innovative technologies and resources necessary for the physical mapping of human chromosomes;
(2) Development of advanced DNA sequencing technology, particularly innovative new approaches with potential for rapid, cost-effective sequencing;
(3) Development of data management systems for use in DNA mapping and sequencing, including data structures, retrieval schemes, user interfaces, and advanced database theory;
(4) Addressing ethical, legal, and societal issues that may arise from applications of knowledge and materials resulting from the Human Genome Initiative. For a more detailed description of issues and specific research topics to be addressed relative to this goal, please see "Ethical, Legal, and Social Implications of the Human Genome Initiative" in the NIH Guide to Grants and Contracts, Vol. 18, No. 4, January 26, 1990.

PRE-APPLICATION AND FURTHER INFORMATION: Before preparing a formal application, potential applicants are encouraged to submit a brief pre-application consisting of two to three pages of narrative describing the research project objectives and method of accomplishment. These will be reviewed relative to the scope and the research objectives of the DOE Human Genome Program. Pre-applications should be sent to: Dr. Benjamin J. Barnhart, Office of Health and Environmental Research, ER-72 (GTN), Washington, D.C. 20545, (301) 353-5037. A response to the pre-applications discussing the potential program relevance of a formal application will be communicated within four weeks after receipt.

Formal applications submitted in response to this notice must be received by the Division of Acquisition and Assistance Management by August 8, 1990, for consideration by an ad hoc review panel. The formal applications should be sent to: U.S. Department of Energy, Office of Energy Research, Division of Acquisition and Assistance Management, ER-04, Room G-236, Washington, D.C. 20545, ATTN: Program Notice 90-5.

GRADUATE PROGRAM IN MOLECULAR BIOLOGY AND GENETICS

Director: Carlo M. Croce, M.D.
Chairman, Graduate Studies: James H. Keen, Ph.D.

As part of intensive development in the fields of molecular biology, molecular genetics and structural biology, a new doctoral program has been established by the Fein Institute for Cancer Research and Molecular Biology and several other departments of Temple University. Areas of training include:

- Genomic Structure and transcriptional and developmental regulation (Drs. Martyn Darby, Tadatsuzu Goto, Kay Huebner).
- Molecular and structural biology of receptors and signal transducers (Drs. Jeffrey Benovic, Thomas Frielle, Bradford Jameson, James Keen, GeraldLitwack, Woon Ki Paik, Diana Soprano).

The program has numerous specialized facilities available including peptide and oligonucleotide synthesis, and sequencing facilities, cell sorting by flow cytometry, computer facilities equipped for molecular modeling and 3-D structure prediction, magnetic resonance, low angle laser light scattering, electron microscopy, and is developing laboratory in X-ray crystallographic analysis.

Students accepted into the program will be provided with doctoral support including waiver of tuition and a stipend of $12,000 per year. For interested and qualified students, a M.D./Ph.D. program is available.

For further information regarding September 1990 entrance, contact: Dr. James H. Keen, Molecular Biology and Genetics Program, Fein Institute for Cancer Research & Molecular Biology, Temple University School of Medicine, 3420 N. Broad Street, Philadelphia, PA 19140. [215] 221-4354. Temple University is an Equal Opportunity Employer/Affirmative Action.

Cold Spring Harbor Laboratory Centennial Symposium

EVOLUTION: FROM MOLECULES TO CULTURE
September 24 - 27, 1990

Organized by:
Richard Dawkins, Oxford University
Jared Diamond, University of California, Los Angeles

MOLECULAR EVOLUTION
Cyrtu Chothia, Medical Research Council, Cambridge
Russell F. Doolittle, University of California, San Diego
Morris Goodman, Wayne State University School of Medicine
Motso Kimura, National Institute of Genetics, Japan
Michael S. Waterman, University of Southern California

FUNCTIONAL MORPHOLOGY
Simon Conway Morris, University of Cambridge
Susan W. Herring, University of Illinois at Chicago
Carole Hickman, University of California, Berkeley
George V. Lauder, University of California, Irvine
Kari J. Niklas, Cornell University
Reinhard M. Rieger, University of Innsbruck

THE COMPARATIVE METHOD
Timothy Clutton-Brock, University of Cambridge
Paul Harvey, Oxford University
Raymond B. Huey, University of Washington, Seattle
Wayne Maddison, University of California, Berkeley
Mark D. Pagel, Oxford University

ANIMAL BEHAVIOR
Steven J. Arnold, University of Chicago
Nick B. Davies, University of Cambridge
Juan D. Dellus, University of Konstanz
Peter Jenkin, University of Auckland

SEX AND SEXUAL SELECTION
Malte Andersson, University of Gothenburg
Jack Bradbury, University of California, San Diego
Alan Grafen, Oxford University
Mark D. Pagel, Oxford University

HUMAN SOCIETY
Kent V. Flannery, University of Michigan, Ann Arbor
Patrick V. Kirch, University of California, Berkeley
Colin Renfrew, University of Cambridge
Colin Wright, University of Michigan, Ann Arbor
Douglas E. Yen, Bishop Museum, Honolulu

LINGUISTICS
Aharon Dolgopolosky, Haifa University
Vyacheslav Ivanov, USSR Academy of Sciences
Alexis Manaster-Ramer, IBM Research, Yorktown Heights
Merritt Ruhlen, Palo Alto, California
Vitaly Shevoroshkin, University of Michigan, Ann Arbor
Serge Starostin, USSR Academy of Sciences

OVERVIEW
Luigi Cavalli-Sforza, Stanford University School of Medicine
Richard Dawkins, Oxford University
David L. Hull, Northwestern University
John Maynard Smith, University of Sussex
Ernst Mayr, Museum of Comparative Zoology

Registration materials may be obtained from:
Meetings Coordinator
Cold Spring Harbor Laboratory
Cold Spring Harbor, NY 11724
(516) 367-8346 FAX (516) 367-8845
ANNOUNCEMENTS

ALFRED P. SLOAN FOUNDATION SABBATICAL AWARDS IN MOLECULAR STUDIES OF EVOLUTION

Molecular or evolutionary biologists at U.S. and Canadian institutions are invited to apply for sabbatical awards for academic year 1991 to 1992, for development of interdisciplinary knowledge needed in molecular studies of evolution. Awards include matching funds or sabbatical salary and expendables allowance. Deadline: 29 June 1990. Contact: Dr. Michael S. Teitelbaum, 630 Fifth Avenue, Suite 2550, New York, NY 10111. Telephone: 212-649-1649.

KENNETH MORGAREIDGE AWARD

To acknowledge and promote excellence in the area of toxicology, the International Life Sciences Institute (ILSI) annually sponsors the Kenneth Morgareidge Award. The $5000 award will be presented at an international symposium in March 1991. The recipient must accept in person and present an overview of research. Candidates must be of U.S. citizenship or U.S. resident alien. All documents must be in English. Deadline is 1 October 1990. For application, contact: F. DeLuca, ELS, 1126 16th Street, N.W., Washington, DC 20036. Telephone: 202-659-0789.

SITUATIONS WANTED


BIOCHEMIST, Ph.D. In federal with 10 years of experience in enzymology, drug metabolism, etc. Seeks tenure research staff position in federal. 4239-K, Barcelo- Ross, St. Louis, MO 63129.


MEETINGS

An invitation in celebration of Singapore's 25th anniversary: BIOTECH: THE NEXT DECADE 11 June 1990 Mandarin Hotel, Orchard Road, Singapore Organized by: Economic Development Board of Singapore and Institute of Molecular and Cell Biology, National University of Singapore.

- New genetic approaches to human biology: Sydney Brenner, MRC, U.K.
- Manipulating the immune system with monoclonal and engineered antibodies: Herman Waldmann, University of Cambridge, U.K.
- Neurosciences: An agenda for the 1990's: W. Maxwell Cowan, Howard Hughes Medical Institute, Bethesda, U.S.A.
- Design for new drugs through genetically engineered targets: William Rutter, Chiron Corporation, U.S.A.
- Catalytic antibodies: Richard Lerner, Institute of Scripps Clinic, U.S.A.

The symposium is open to all. Due to limited places, admission is on a first-come first-served basis and is free. Inquiries to: Y. H. Tan Institute of Molecular and Cell Biology National University of Singapore Singapore 0511 FAX: 65-777-0402

COURSES AND TRAINING

CARDIOVASCULAR PATHOPHYSIOLOGY FOR ENGINEERS AND PHYSICAL SCIENTISTS

A 1-week intensive course sponsored by the Massachusetts Institute of Technology (MIT), 11 to 15 June 1990, Cambridge, Massachusetts. Dr. Richard I. Cohen, Program Director. Basic Principles of Cardiovascular Physiology, Cardiovascular Medicine, Diagnostic and Therapeutic Technologies. Contact: Director of the MIT Summer Session, telephone: 617-253-2101.

PERINATAL CARCINOGENESIS: CURRENT DIRECTIONS WORKSHOP, 21 AND 22 MAY 1990 FREDERICK, MARYLAND

Sponsored by the Laboratory of Comparative Carci- nosegesis, Division of Cancer Etiology, National Cancer Institute, at the Frederick Cancer Research Facility. Informal cross-disciplinary presentations and discussions on biochemical, molecular, pathological, and epidemiological aspects of perinatal carcinogenesis in animals and humans. Pre-registration required. For information and registration, call: Dr. Lucy M. Anderson or Mrs. Ann B. Jones, telephone: 301-698-5600; FAX: 301-698-5946.

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