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Tumor Virologist/Biochemist/Molecular Biologist, Ph.D. 1983. Postdoctoral research and teaching experience. Broad research background: viral/cellular oncogenes, gene expression, herpesviruses, DNA tumor viruses, tumor biology, DNA replication, transcription, nucleic acid metabolism, RNPs structure and function, protein phosphorylation. Publications. Seeks challenging research/teaching position in pharmaceutical industry/hospital/university. Box 70, SCIENCE.

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ASSISTANT PROFESSOR. The Medical School of the State University of New York at Stony Brook seeks for a tenure-track position in a basic or clinical department for an independent young investigator with an M.D. or Ph.D. degree and a research interest in the molecular basis of cardiovascular disease. Please submit curriculum vitae, statement of research objectives, recent publications, and three references to: Dr. Robert E. Olson, President of Medical Health Sciences Center, Level 2, Room 169, SUNY Stony Brook, Stony Brook, NY 11794. SUNY Stony Brook invites applications/Affirmative Action/Equal Opportunity Employer and educator.

The Department of Preventive Medicine and Environmental Health of The University of Iowa College of Medicine invites applications for a tenure-track faculty position at the ASSISTANT PROFESSOR level. Applicants holding the Ph.D. degree in one of three areas will be considered: (i) analytical chemistry of environmental pollutants and industrial toxicants, (ii) environmental engineering/sciences, or (iii) general environmental health. Education and academic or professional experience in public health will be advantageous. The appointee will be expected to develop research programs in the general field of preventive medicine and environmental health, and to publish. The departmental research directed at health consequences of environmental pollution. Teaching responsibilities will include: instruction in environmental health, technology, and policy and participation in graduate-level instruction offered by the department. Salary will depend on qualifications, evidence of research success, achievement, and experience. Please respond to: Donald P. Morgan, M.D., Ph.D., The University of Iowa College of Medicine, Department of Preventive Medicine, 124 AMFR—Oakdale Campus, Iowa City, IA 52242. Attention: Recruiting Assistant. The University of Iowa is an Equal Opportunity/Affirmative Action Employer.

The Department of Microbiology, at The Ohio State University invites applications for a tenure-track ASSISTANT PROFESSOR in Virology. Candidates with interests in the aspect of viral disease or disease prevention are particularly encouraged to apply; however, candidates with expertise in any viral system will be considered. The successful candidate must have demonstrated research potential by recent publications and will be expected to develop and maintain an independent research program, teach an undergraduate course in general virology, participate in the general teaching responsibilities of the Department, and train graduate students. Candidates should have a Ph.D. degree and at least 2 years of postdoctoral experience. Candidates should submit curriculum vitae, a summary of research accomplishments, and the names of three references to: Dr. Bruce S. Zwillinger, Chairman, Virology Search Committee, Department of Microbiology, College of Medicine, The Ohio State University, 1030 W 12th Avenue, Columbus, OH 43210. The position is available starting in fall 1987. Applications will be accepted until the position is filled. The Ohio State University is an Equal Opportunity/Affirmative Action Employer.

Applications are sought from M.D.’s and Ph.D.’s for full-time positions in the Department of Pathology at the level of ASSISTANT, ASSOCIATE, OR FULL PROFESSOR, depending on qualifications and experience. Responsibilities will include teaching and hospital service. Candidates should be Board-certified or eligible in anatomic pathology, be eligible for licensure in the state of Michigan, and exhibit scholarship potential. Pursuit of individual research interests is required. Send curriculum vitae and three references to: Joseph Wiener, M.D., Chairman, Department of Pathology, Wayne State University School of Medicine, 540 East Canfield, Detroit, MI 48201. An Equal Opportunity/Affirmative Action Employer.

ASSISTANT TO THE VICE PRESIDENT, RESEARCH. The University of Miami seeks applications for an individual with a Ph.D. in a biological science or an M.D. with research experience. Duties include assisting the Vice President in research development, making site visits, coordinating meetings with faculty, and assisting in the interviewing of applicants for research grants. Must be available for travel. Excellent fringe benefits. Please submit letter and salary requirements to: March of Dimes Birth Defects Foundation, Personnel Department, P.O. Box 2000, Room 55, White Plains, NY 10602. An Equal Opportunity/Affirmative Action Employer.

ASSOCIATE PROVOST FOR RESEARCH UNIVERSITY OF MIAMI, CORAL GABLES, FLORIDA The University of Miami solicits applications for the position of Associate Provost for Research. The Associate Provost for Research has responsibility for all of the research programs at the University, including the School of Medicine, and the Rosenstiel School for Marine and Atmospheric Science. In addition, the Associate Provost for Research should be an individual who can foster interactions of the University with the state and federal government and with private industry in new research programs. Applicant, a person with demonstrated success in science or engineering, and individuals with experience in the interface between university and industry or university and government will receive preferential consideration. Interested individuals should submit a complete curriculum vitae, as well as the names of three individuals who can be contacted for reference, no later than 1 September 1987 to: Dr. Luis Glasser, Executive Vice President and Provost, University of Miami, P.O. Box 248033, Coral Gables, FL 33126. The University of Miami is an Equal Opportunity Employer.

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BIOCHEMIST—MOLECULAR ENDOCRINOLOGIST: Research associate professor, research associate, and postdoctoral research positions available for studies related to biochemistry of reproduction. Emphasis is on mechanism of hormone action, receptor purification and characterization, and synthesis and related, basic and applied, problem areas. Ph.D. in biochemistry preferred. Postdoctoral (NIH) training grant positions in reproductive endocrinology also available. Please forward curriculum vitae, general statement of research interest/experience, and names of three references to: Dr. Leo E. Reichert, Jr., Professor and Chairman, Department of Biochemistry, Albany Medical College, Albany, NY 12208. Albany Medical College is an Equal Opportunity Employer.

BIOLOGY INSTRUCTOR MIAMI-DADE COMMUNITY COLLEGE—SOUTH CAMPUS Responsibilities include teaching microbiology for allied health students, general biology, and an introductory environmental science course. Teaching experience and experience with computer application for biological science courses desirable. M.S. in Biology or science. Salary: Based on academic rank established by education and experience. Liberal benefits. Submit letter of interest, academic credentials, and three letters of reference to: Personnel Services, 11011 S.W. 104 Street, Miami, FL 33176. Application must be received by 1 June 1987. An Equal Access/Equal Opportunity Community College.

CHIEFPERSON DEPARTMENT OF HUMAN ANATOMY
The School of Medicine, University of California, Davis, invites applications and nominations for the position of Chairperson of the Department of Human Anatomy. The department currently comprises ten tenure-track faculty, is housed in a modern laboratory building, offers graduate training in cell biology, anatomy, and related disciplines, and is responsible for the teaching of gross, neuro-, and microscopic anatomy and aspects of cell biology in the medical curriculum. Candidates must have a distinguished record of research, academic administrative experience, and a commitment to teaching both medical and graduate students. The individual selected will be expected to provide leadership for an anticipated expansion of the department while maintaining a vigorous research program. The Chairperson will be expected to develop and lead the academic department in the neuroscience area due to outstanding resources and scientific environment. The Chairperson must be a person of the highest professional standing with at least three references to: Dr. James H. Freisheim, Professor and Chairman, Department of Biochemistry, Medical School, University of California, Davis, CA 95616. Opening until filled, but not later than 15 July 1987; application and names of three references should be received before 15 July 1987, to assure full consideration.

Chairperson of the Department of Human Anatomy, University of California, Davis, is an Equal Opportunity/Affirmative Action Employer.

ASSOCIATE PROFESSOR DESIGNATED DIRECTOR, AGRICULTURAL EXPERIMENT STATION Montana State University seeks ASSOCIATE DIRECTOR OF AGRICULTURAL EXPERIMENT STATION to develop and coordinate research efforts of 13 on-campus and 8 off-campus units. Associate Director reports to the Experiment Station Director and is responsible for liaison with regional and national agricultural organizations, and for long-range planning and goal setting. REQUIRED: EDUCATIONS: Earned doctorate in an agricultural science or related field; established research record. DESIRED QUALIFICATIONS: Experience with current, emerging, agricultural research technology; commitment to land grant mission and potential managerial and leadership skills. SALARY: $57,000 to $62,000. Please forward applications and experience. CLOSING DATE: Screening of applications will begin on 15 July 1987 and continue until position is filled. APPLICATION: Send letter of application, resume or curriculum vitae, and the names, addresses, and telephone numbers of five references to: Associate Director Search Committee, 202 Linfield Hall, Montana State University, Bozeman, MT 59717–0002; telephone: 406–994–3681. Montana State University is an Equal Opportunity/Affirmative Action Employer and Educator.

CELLULAR AND MOLECULAR BIOLOGY POSTDOCTORAL RESEARCH ASSOCIATE Available immediately. To study control of hormone secretion at the single-cell level by use of reverse hemolytic plaque assay (RHPA), and other techniques, and related signal transduction, utilizing recombinant technologies and other modern biochemical and microscopic techniques. Ongoing projects include: (i) characterization of an extracellular mediator of prolactin action, (ii) ontogeny and functional interconversion of growth hormone and prolactin secreting cells, (iii) differential regulation of hormone release from cells that simultaneously release both of these hormones, and (iv) molecular heterogeneity of secreted forms of hormone. Salary is highly competitive and commensurate with experience. Teaching responsibilities in cellular and molecular biology are not required. Outstanding prospective of an individual who has demonstrated research potential by recent publications and will be expected to develop and maintain an independent research program, teach an undergraduate course in general virology, participate in the general teaching responsibilities of the Department, and train graduate students. Candidates should have a Ph.D. degree and at least 2 years of postdoctoral experience. Candidates should submit curriculum vitae, a summary of research accomplishments, and the names of three references to: Dr. Bruce S. Zwillinger, Chairman, Virology Search Committee, Department of Microbiology, College of Medicine, The Ohio State University, 1030 W 12th Avenue, Columbus, OH 43210. The position is available starting in fall 1987. Applications will be accepted until the position is filled. The Ohio State University is an Equal Opportunity/Affirmative Action Employer.

The Medical College of Ohio invites applications and nominations for the position of Chairperson of the Department of Anatomy. Candidates holding a Ph.D. or M.D. degree must be highly qualified individuals with nationally recognized credentials in neuroscience research. Applicants should also have an excellent record of research accomplishment, administrative and academic administrative experience, and a commitment to teaching both medical and graduate students. The individual selected will be expected to provide leadership for an anticipated expansion of the department while maintaining a vigorous research program. The Chairperson will be expected to develop and lead the academic department in the neurosciences area due to outstanding resources and scientific environment. The Chairperson must be a person of the highest professional standing with at least three references to: Dr. James H. Freisheim, Professor and Chairman, Department of Biochemistry, Medical School, University of California, Davis, CA 95616. Opening until filled, but not later than 15 July 1987; application and names of three references should be received before 15 July 1987, to assure full consideration.

Chairperson of the Department of Human Anatomy, University of California, Davis, is an Equal Opportunity/Affirmative Action Employer.
**SCIENTIFIC ADMINISTRATOR**

Reporting to the Scientific Director for the Light Source and the Director for the Center for X-Ray Optics, the incumbent bears primary responsibility for preparing proposals, scientific reports, brochures and planning documents for both the Center for X-Ray Optics and for the Light Source. The incumbent will represent the Center and the Project in contact with governmental agencies, University of California and other national laboratories. Will participate in short and long range planning and implementation on issues of significance to the success of programs and activities. Will review scientific and program literature and provide technical assistance to internal and external scientists in the preparation and presentation of scientific material. Must have a proven record of facilitating key scientific activities, including the preparation of scientific materials in a research environment. Requires excellent written and verbal communications skills. Familiarity with University of California, Department of Energy, and other national laboratories as well as LBL helpful. An advanced degree in a Scientific field is desirable. To apply, send two copies of resume to Lawrence Berkeley Laboratory, 1 Cyclotron Road, Employment Office 90-3042, Berkeley, CA 94720. Refer to Job A/4113. An Equal Opportunity Employer M/F.

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**HEALTH SCIENTIST ADMINISTRATOR/ MICROBIOLOGIST**

**GS 13/14**

Bacteriology and Virology Branch, MIDP National Institute of Allergy and Infectious Diseases National Institutes of Health

The applicant must have the following qualifications:

- a doctorate in microbiology or equivalent;
- recent experience in the performance of research on bacteria or bacterial diseases at the molecular level;
- an awareness of the state of the science in immunology, cell biology, genetics and biochemistry, and
- demonstrated administrative ability and experience in planning and developing research programs.

Research experience with sexually-transmitted diseases is desired but not required.

The incumbent will administer extramural research support programs on sexually transmitted diseases (except AIDS); hospital-associated infections, group B streptococcal infections, Legionnaires' disease and other bacterial diseases of public health importance. A full position description is available.

Applicants should submit Standard Form 171 (Application for Federal Employment) and their resume to:

NIAID Personnel 9000 Rockville Pike Building 31, Room 7A33 Bethesda, MD 20892

For more information call Mr. Richard Southers, 301/496-4634. All applications must be received by May 22, 1987. Applicants must be U.S. citizens.

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ANTICIPATED CHAIR PROFESSORSHIP
LOUISIANA STATE UNIVERSITY (LSU) FOUNDATION TUTTIRED CHAIR PROFESSORSHIP IN BIOCHEMISTRY/CHAIRED PROFESSORSHIP. The College of Basic Sciences announces the availability of a chaired professorship in the College of Basic Sciences. Qualifications: Candidates are sought in the specialty of biochemistry, with a particular focus on pharmacology, cell biology, and molecular biology. Applicants should have an ongoing nationally funded, internationally recognized research program. Deadline: 29 May 1987.

Applications and nominations should be sent to:
Search Committee: Chair Professorship
Louisiana State University
Department of Biochemistry
232 Chopps Hall
Baton Rouge, LA 70803

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DIRECTOR
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Applications invited for above position. Independently funded institute devoted to research in marine and terrestrial biology. Applicants should have Ph.D. in a relevant subject area and be working in tropical and Third World environments. Salary PNG Kina 17,000 and residential and travel leave benefits. Send curriculum vitae and names of two referees by 5 June 1987 to: Dr. Frank Talbot, Executive Director, The California Academy of Sciences, Golden Gate Park, San Francisco, CA 94118-9961.

EXPERIMENTAL IMMUNOPATHOLOGIST
The University of Connecticut Health Center and VA Medical Center invite applicants for a full-time position with joint appointments in the Departments of Medicine, Pathology, and Surgery. Interested applicants must have an M.D. and preferably a Ph.D. degree with considerable experience in experimental immunopathology. Candidates must be established investigators with evidence of high quality independent research, extensive publications, and the capacity to generate extramural grant support. Essential qualities of the successful applicant are the ability to develop an independent research program involving organ transplantation and tumor biology. Experience in the design and application of monoclonal antibodies and in situ hybridization techniques is essential. These techniques will be used in the analysis of interactions between the coagulation and immune systems in studies of experimental and human allograft rejection and tumor immunobiology. Please submit a letter describing research, curriculum vitae, three references, and research interests to:
Frederick R. Rickles, M.D.
Department of Medicine
University of Connecticut Health Center
Farmington, CT 06026

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FACULTY POSITION UNIVERSITY OF CALIFORNIA, IRVINE

The Department of Physiology and Biophysics is seeking faculty member with research interests in molecular, cellular, and organ systems of biology. The appointment will be at the ASSISTANT PROFESSOR (tenure-track) level commencing fall 1987 or winter 1988. The successful candidate will be expected to conduct a vigorous, independent research program and to contribute to the teaching of medical and graduate students. Applicants should have postdoctoral experience and demonstrated ability to maintain an active research laboratory. Send curriculum vitae, a brief description of research interests, and names of three references to: Professor Stephen H. White, Chair of the Department of Physiology and Biophysics, University of California, Irvine, CA 92717.

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POSITIONS OPEN

POSTDOCTORAL OR RESEARCH ASSISTANT
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Studies deal with immunopharmacology of immunosuppressive agents including mechanisms of action at the cellular and molecular level, and use in tolerance induction as part of a major program in transplantation. Salary range from $24,000 to $34,000, depending on prior experience.

Send curriculum vitae together with names of three references to: Marvin R. Garovoy, M.D., Director, Immunogenetics and Immune Regulation Laboratory, HSE-520, University of California, San Francisco, Third and Parnassus Avenues, San Francisco, CA 94143.

The University of California is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

FACULTY POSITIONS ANATOMY

The Department of Anatomy of the F. Edward Hébert School of Medicine, Uniformed Services University, invites applicants for tenured or tenure-track positions. Applicants must have either an M.D. or Ph.D. degree in the biological sciences. Teaching assignments involve gross anatomy, microscopic anatomy, and/or neuroanatomy and it is expected that applicants have research experience and/or postdoctoral training. Preference will be given to candidates with research interests in cell biology, endocrinology, or various aspects of neurosciences. Applications should be received by 15 June 1987. Send curriculum vitae, bibliography, statement of teaching and research experience, and three letters of recommendation to:
Director, Personnel/Manpower
Uniformed Services University of the Health Sciences
USUHS
4301 Jones Bridge Road
Bethesda, MD 20889

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FACULTY POSITION(S), DEPARTMENT OF OCEANOGRAPHY AND OCEAN ENGINEERING (O/OE), FLORIDA INSTITUTE OF TECHNOLOGY:

The Florida Institute of Technology invites applications for an O/OE level. The Florida Institute of Technology is located on the east central coast of Florida that offers great freedom to creative individuals. Curriculum vitae including a list of publications and a brief description of proposed research should be sent to: Dr. J. G. Windsor, Jr., Department of O/OE, Florida Institute of Technology, Melbourne, FL 32901.

FACULTY POSITIONS AVAILABLE

The Department of Anatomy at Temple University School of Medicine is seeking applicants for two tenure-track positions at the rank of assistant professor. Candidates for each of these positions will be expected to teach in gross anatomy. Experience and an interest in teaching medical or dental students is essential. Send curriculum vitae, references, and research interests to:
Thomas J. Rogers, M.D., Chairman
School of Medicine
Temple University
Philadelphia, PA 19140.

POSITIONS OPEN

FACULTY POSITIONS

The Lucille P. Markey Center at the University of Kentucky invites applications for two tenure-track positions at the level of assistant/associate professor/tenure-track. Applications will be in an appropriate academic department in the College of Medicine. The areas of interest are cell biology, pharmacology and gene transfer with specific emphasis on the molecular biology and function of oncogenes, gene expression, and development. The Markey Center has a new research facility and excellent core laboratories funded by the Commonwealth and by an NCI core grant. The research focus is multidisciplinary and incorporates the productive work of pathologists, oncologists and basic and clinical scientists. Please send curriculum vitae, a statement of research interest, and names of three references to: Dr. Mark C. White, 200 Rose Street, Lexington, KY 40536-0093.

The University of Kentucky is an Equal Opportunity Employer.

FACULTY—NEUROPSYCHOLOGY: THE Department of Psychiatry, University of Connecticut Health Center is accepting applications for a position in clinical neuropsychology. We are seeking applicants with experience in clinical assessment and a strong research interest in substance/alcohol abuse to participate in funded grants in this area. Candidates who have experience in psychopharmacology and/or cognitive testing will be given preference. Connecticut licensing or eligibility is essential. Send resume to: Dr. Victor J. Huselbrot, M.D., Director, Department of Psychiatry, University of Connecticut Health Center, Farmington, CT 06032.

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FUNGAL BIOTECHNOLOGY

As part of our long-term program of strain improvement, Monterey Mushrooms (an AMFAC company) has two positions open at the RESEARCH ASSISTANT level. The first position will help develop a genetic transformation system for A. bisporus. This work will involve the construction of plasmid vectors for the transformation of A. bisporus protoplasts. The second position will assist in a program to clone specific genes which have been shown to affect mushroom quality.

Both of these positions require a B.S. or M.S. degree with "hands on" experience in molecular biology. The Mushroom Research Laboratory is located near Monterey Bay about 20 miles south of Santa Cruz, California. Qualified applicants should contact: Dr. Nigel Dunn-Coleman at the Monterey Mushroom Research Lab, P.O. Box 189, Watsonville, CA 95077; telephone: 408-728-8321. The closing deadline is 30 May 1987.

HEMATOLOGY/ONCOLOGY RESEARCH:

IMMUNOLOGIST

The Department of Microbiology and Immunology at Temple University School of Medicine is currently recruiting an individual at the assistant/associate professor level to complement an active group of immunologists. A doctoral degree, at least 2 years of postdoctoral experience, and a strong background in fundamental immunology are required. We are particularly seeking an individual with an interest in molecular or cellular aspects of microbial immunology (particularly immunoparasitology), neuroimmunology, T-cell regulation or recognition, or T-cell function. Successful candidates should be able to establish an independent research program, and will be members of the graduate faculty with responsibilities for teaching graduate and medical students. Send curriculum vitae and names of three references to: Thomas J. Rogers, Ph.D., Chairman, Department of Microbiology and Immunology, Temple University School of Medicine, 3400 North Broad Street, Philadelphia, PA 19140. Equal Opportunity/Affirmative Action Employer.

SCIENCE, VOL. 236
Researchers for Animal Health Research

Pfizer Inc., a worldwide leader in the animal health, pharmaceutical and healthcare industries, has an immediate opening for a creative research scientist at its modern Animal Health Research facility in Terre Haute, Indiana. As a member of the Discovery Research team, you will develop and conduct both basic and applied research to evaluate potential antiparasitic and anticoccidial agents for domestic animals. The successful candidate will have a PhD from an accredited university with emphasis in veterinary parasitology, and experience in coccidiosis research. Publications of important findings will be encouraged.

Pfizer offers an exceptional opportunity for professional recognition and career growth with competitive compensation, comprehensive benefits and relocation assistance. Interested qualified applicants should submit a current resume with the names of three references to: Christina Batjer, Senior Personnel Supervisor, Pfizer Inc., P.O. Box 88, Terre Haute, Indiana 47808.
RESEARCH SCIENTISTS

As the result of our continuing commitment to research, Ayerst Laboratories, subsidiary of Fortune 100 American Home Products Corporation, is seeking three motivated scientists to join our Immunology Dept.

OSTEOARTHRITIS

A Ph.D. research scientist is sought with a doctorate in Immunology or Biochemistry and two years or more post-doctoral experience with in vivo models of osteoarthritis. Experience in cartilage metabolism, hydrolase assays, and protoglycanase isolation and characterization is a strong plus. The successful candidate will establish a program in osteoarthritis and lead in the discovery of novel therapies for preventing cartilage destroying pathologies. Collaborative efforts with ongoing research projects on arthritis, immunoregulation, and bone disease will be encouraged. RESPOND TO DEPT. PG.

BONE METABOLISM

An entry level Ph.D. scientist is sought to establish a calcified tissue histology research program to complement our current bone research activities. Experience with calcified tissue specimen preparation and evaluation is required. Experience in cell biology and animal models of bone metabolism is highly desirable. The successful candidate will also collaborate with research investigations in the arthritides, periodontal disease, and bone regulatory proteins. RESPOND TO DEPT. MH.

FACS OPERATOR

Applications are invited from FACS scientists with a strong interest in immunoregulation. The successful candidate will have extensive experience with flow cytometry and have demonstrated the capacity to integrate FACS research into an active immunology program. Both B.S. and M.S. candidates will be considered. RESPOND TO DEPT. PW.

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Interested candidates should forward their curriculum vitae indicating their salary history and position of interest to:

Personnel Manager

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DIRECTOR, ENVIRONMENTAL EPIDEMIOLOGY AND BIOMETRY DIVISION

The U.S. Environmental Protection Agency (EPA) is seeking candidates for the position of Director, Environmental Epidemiology and Biometry Division (EEBD). The position is located in the Health Effects Research Laboratory (HERL), Research Triangle Park, NC. This is a permanent full-time position. The salary range is $53,830 to $69,976 per annum, commensurate with qualifications. Candidates having M.D. degrees may be eligible for a $10,000 annual supplement.

HERL has a staff of about 325, over 100 of whom hold doctoral level degrees. The Laboratory has a diverse program consisting of six divisions, namely EEBD, Genetic Toxicology, Inhalation Toxicology, Neurotoxicology, Developmental and Cell Toxicology, and Toxicology and Microbiology. The program includes in vitro, animal, human clinical, and epidemiological research designed to address issues related to the health effects of air and water chemical and biological pollutants.

The EEBD has a multidisciplinary program organized into three branches: Epidemiology, Biostatistics, and Data Management. The staff numbers about 25. The major missions are to conduct research in biostatistics and epidemiology, with a focus on outdoor and indoor air pollutants, water pollutants, and toxic chemicals and to provide statistical and data management support to HERL research programs. The program is highly interactive with other HERL divisions. A substantial portion of the epidemiology and statistical programs is extramural, with scientists playing a major role in program development and direction. The primary responsibilities of the Director are to direct and manage the program. This includes developing the program to meet the evolving needs of EPA, presenting the program, developing and managing budgets, supervising the staff, directing the progress of the program, and ensuring the scientific quality and productivity of the program.

Qualifications for the position include:
1. An M.D. or a doctoral degree in epidemiology, statistics, health science or fields closely related to these.
2. At least five (5) years of post-doctoral research experience in epidemiology and/or biostatistics. Some experience in these fields as related to environmental and/or occupational health effects is necessary.
3. Experience in developing and managing budgets.
4. At least three (3) years of experience as a supervisor of a scientific/professional staff.
5. Applicants must have recognized scientific expertise in environmental and/or occupational epidemiology and/or biostatistics which is evidenced by multiple publications in the peer-reviewed literature and invitations to participate in national and international meetings/presentations on these topics.
6. Proven ability to provide leadership in directing the development and progress of a creative and effective research program in environmental epidemiology and biostatistics.
7. U.S. citizenship is required.

Forward curriculum vitae and names of three references prior to June 8, 1987 to:

Dr. F. Gordon Hueter, Director, HERL
c/o Marcy C. Kesselman, PMD (MD-29)
U.S. Environmental Protection Agency
Research Triangle Park, NC 27711

AN EQUAL OPPORTUNITY EMPLOYER

NATIONAL UNIVERSITY OF SINGAPORE
DEPARTMENT OF BIOCHEMISTRY

Applications are invited for teaching appointments in the Department of Biochemistry. For appointments at Lecturer level and above, candidates should have either a Ph.D degree or an approved basic medical or dental degree with a recognised higher professional qualification. A good research record will be a decided advantage.

Candidates applying for Senior Tutorships must possess either a first class honours degree in Biochemistry or an approved basic medical or dental degree. Under the Senior Tutorship Scheme, the appointee will be given the opportunity to pursue a relevant higher qualification, upon receipt of which, he will be considered for appointment to a Lectureship.

Gross annual emoluments range as follows:

Senior Tutor $23,470 to $25,660
Lecturer $23,900 to $25,680
Senior Lecturer $25,100 to $29,090

(US$1 = $2.14 approximately)

The commencing salary will depend on the candidate's qualifications, experience and the level of appointment offered. In addition, appointees at Lecturer level and above who possess an approved basic medical or dental degree and relevant higher academic/professional qualifications may opt to retain consultation fees up to 60% of their annual gross salary or to receive a fixed annual clinical allowance as follows:

Lecturer $56,000 to $70,000
Senior Lecturer $65,000

Leave and medical benefits will be provided. Depending on the type of contract offered to Lecturers and above, other benefits may include: provident fund benefits or an end-of-contract gratuity, a setting-in allowance of $81,000 or $82,000, subsidised housing at nominal rentals ranging from $8100 to $216 p.m., education allowance for up to three children, subject to a maximum of $10,000 per annum per child, passage assistance and baggage allowance for the transportation of personal effects to Singapore. Provident fund benefits will be provided to appointees at Senior Tutor level.

Application forms and further information on terms and conditions of service may be obtained from:

The Director
Personal Department
National University of Singapore
10 Kent Ridge Crescent
Singapore 0311

or from:

The Director
North America Office
National University of Singapore
780 Third Avenue, Suite 2403
New York, N.Y. 10017, U.S.A.
Tel: (212) 761-0231

CARBOHYDRATE CHEMISTRY

GENETICS INSTITUTE, INC., located in Cambridge, MA, has expanded its research and development activities in the field of biotechnology to carbohydrate chemistry and biochemistry. The Carbohydrate Chemistry Division will focus on the biochemical, immunological, pharmacological, and structural aspects of protein-linked oligosaccharides in recombinant DNA products.

We have immediate openings at the B.S., M.S. or Ph.D. levels for individuals interested in the chemistry and biochemistry of protein-linked oligosaccharides. Currently, three positions are open:

CARBOHYDRATE COMPOSITION ANALYSIS

Individual will be responsible for the characterization and quantification of the carbohydrate components of recombinant glycoproteins. Although previous experience with carbohydrate polymers is preferred, talented individuals with experience in gas chromatography and mass spectroscopy are encouraged to apply.

CARBOHYDRATE STRUCTURAL ANALYSIS

Primary responsibility of this position is to investigate the relationship between oligosaccharide structure and the processing, secretion, and biological function of recombinant glycoproteins. Candidates should be familiar with modern chemical and biochemical techniques for the structural determination of protein-linked oligosaccharides, especially permethylation analysis. Candidates also interested in the development and implementation of new methodologies in carbohydrate structural analysis are especially encouraged to apply.

CARBOHYDRATE BIOCHEMIST

An opening exists for a Ph.D. level scientist preferably with at least two years of postdoctoral experience in the general area of carbohydrate biochemistry. Candidates should be strongly motivated to pursue structure/function relationships of oligosaccharides/proteins and possess the requisite experimental background to address this area. This individual will also be responsible for the implementation and further development of HPLC techniques for the isolation and purification of glycoconjugates.

Genetics Institute offers a stimulating scientific environment in addition to excellent salary, equity participation, and benefits package. Qualified candidates should forward their resumes, in confidence, to Barbara Covel, Personnel Manager.

Genetics Institute
87 CambridgePark Drive, Cambridge, MA 02140
An Equal Opportunity Employer
UNIVERSITY OF HONG KONG LECTURER IN PHYSIOLOGY

Applications are invited by the Department of Physiology for a lectureship in physiological science. This position is equivalent to a postgraduate research position, and the appointee will be expected to participate in the teaching of physiology to dental and medical students. Preference will be given to applicants with higher degrees in the related field, and to those who have relevant experience in biological research. Applications, which should include a brief description of the applicant's research interest, will be considered only in the absence of a suitable academic appointment. Applications should be sent to: Dr. Henry K. Cheung, Department of Physiology, University of Hong Kong, 1028 Tat Chee Avenue, Hong Kong, China. Applications, which should include a brief description of the applicant's research interest, will be considered only in the absence of a suitable academic appointment. Applications should be sent to: Dr. Henry K. Cheung, Department of Physiology, University of Hong Kong, 1028 Tat Chee Avenue, Hong Kong, China.

The University of Hong Kong is an Equal Opportunity Employer.

INSECT PHYSIOLOGIST to participate in a research program investigating the mechanisms regulating insect development and metabolism. The successful applicant will be expected to develop a research program and collaborate with other University scientists. The position is available immediately. Applications should include a vita and the names of three references to: Dr. C. W. Wendell, Department of Entomology, University of California, Berkeley, CA 94720. Applications will be considered until the position is filled.

INSTRUCTOR in MOLECULAR BIOLOGY. The Department of Molecular Biology at the University of California, Berkeley, is seeking candidates for an Instructor position. The successful candidate will teach courses in molecular biology and participate in the development of new courses. The position will begin August 1, 1987. Applications should be submitted to: Dr. H. J. Schreiber, Department of Molecular Biology, University of California, Berkeley, CA 94720. Applications will be considered until the position is filled.

THE UNIVERSITY OF COLORADO

Graduate Record Exam...tory, Colorado, to: Dr. J. H. K. Chang, Department of Biology, The University of Colorado, Boulder, CO 80309. The University of Colorado is an Equal Opportunity/Affirmative Action Employer.

MOLECULAR BIOLOGY NEWS

IMMUNODIAGNOSTIC CHEMIST—PAUL J. MUNYER, Ph.D.

Dr. J. H. K. Chang, Department of Biology, The University of Colorado, Boulder, CO 80309. The University of Colorado is an Equal Opportunity/Affirmative Action Employer.

PHARMACOLOGY/PHYSIOLOGY

IMMUNOLOGY LABORATORY DIRECTOR

Pennsylvania Drive, Salt Lake City, Utah, is seeking an individual to direct the laboratory. The successful candidate will be expected to have a Ph.D. in immunology or a related field and a minimum of 5 years of experience in research or teaching. The candidate will be expected to develop and direct a research program, supervise the laboratory staff, and teach at the graduate level. Applications should be sent to: Dr. J. H. K. Chang, Department of Biology, The University of Colorado, Boulder, CO 80309. The University of Colorado is an Equal Opportunity/Affirmative Action Employer.

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MOLECULAR BIOLOGY NEWS

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Dr. J. H. K. Chang, Department of Biology, The University of Colorado, Boulder, CO 80309. The University of Colorado is an Equal Opportunity/Affirmative Action Employer.
Research Biologist

The Agricultural Research Division of American Cyanamid Company has a position available for a Research Biologist whose duties will include conducting microbial mutagenesis evaluations, under minimal supervision, in support of discovery, development and product registrations work done in compliance with Federal GLP regulations. Responsible for operation, maintenance and record keeping of laboratory equipment and ordering supplies. Conducts preliminary data evaluations (judgment required) and uses a computer assisted data entry system to register data and prepare reports.

Applicants will have a B.S. degree in mammalian biology or microbiology with 6 months to 1 year laboratory experience, beyond college work, in a biology lab.

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Agricultural Research Division
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An Equal Opportunity Employer m/f/h

SANDOZ, a leading international pharmaceutical company based in Switzerland, is expanding its Preclinical Research Department in Basle. We require a number of young, well-qualified academic staff to join a newly established group working on Disorders of Bone Metabolism a field in which SANDOZ has considerable clinical experience, to which we now plan to devote more research resources.

The following positions are currently open:

**Cell Biologist**

**Biochemist**

**Histologist/Morphologist (Ph.D.)**

**Pharmacologist/Physiologist (Ph.D. or M.D.)**

The successful applicant for each of these posts will work closely together with the head of a newly formed interdisciplinary group within our Endocrinology Unit and will be jointly involved in choosing and pursuing promising lines of research. He or she should be familiar with all the necessary techniques in his or her own specialty for carrying out front-line research on bone metabolism. We want to establish relevant in vitro and whole animal models in this field.

In addition to higher academic qualifications (Ph.D. or M.D.), applicants should ideally have postdoctoral and/or industrial experience, a specialised knowledge of bone metabolism and a background knowledge of endocrinology. We hope to attract people who would enjoy working in an interdisciplinary environment where the emphasis is on the discovery and development of new therapeutic agents, in collaboration with medicinal chemists.

SANDOZ offers a scientifically attractive working atmosphere, well-equipped laboratories, and the opportunity both to publish the results of original research and to attend scientific meetings.

Applications, which will be treated in strict confidence, should be accompanied by a curriculum vitae and list of publications and addressed to:

Sandoz Ltd.
Personnel Department, Ref. 7109
CH-4002 Basle, Switzerland
POSTDOCTORAL POSITION available in summer 1987 for a candidate with a strong background in protein chemistry. The successful applicant will take part in a project investigating protein-DNA interactions in heat shock gene expression in mammalian cells. Experience in protein purification by chromatographic and electrophoretic techniques is required. Expertise in 2-D gel electrophoresis and an interest in molecular biology is desirable. Send curriculum vitae and names of three references to: Dr. Stuart Calderwood, Joint Center for Radiation Therapy, New England Deaconess Hospital, 50 Binney Street, Boston, MA 02115. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION
Available immediately 1 July 1987 to work in the area of biochemistry and molecular biology of human malaria parasites. Previous experience not necessary in parasitology but desirable in gene cloning methodology. Please send curriculum vitae and have three letters of recommendation sent to: Nibhay Kumar, Ph.D., Department of Immunology and Infectious Diseases, School of Hygiene and Public Health, The Johns Hopkins University, 615 North Wolfe Street, Baltimore, MD 21205; telephone: 301-955-7177.

POSTDOCTORAL POSITION—A postdoctoral position is available immediately for an individual with an interest in studies on protein and phospholipid biochemistry. GC-MS experience is desirable. State-of-the-art methodology will be employed to investigate mechanism of leukotriene and PAP biosynthesis and pathogenesis. Please send curriculum vitae to: Maureen Quigley, Professional Employment Representative, Department C, American Cyanamid Company, Lederle Laboratories, Pearl River, NY 10965. An Equal Employment Opportunity Employer.

POSTDOCTORAL POSITION available immediately to join group to study mechanisms of microvascular regulation, endothelial cell function in vivo and in vitro, with special emphasis on eicosanoids, EDRF, oxygen metabolites, and cyclic GMP. Background in microcirculatory techniques and vascular smooth muscle work preferred. Minimum duration 2 years. Salary competitive. Applicants should send curriculum vitae, recent publications, and names of three references to: Gabor Kaley, Ph.D., Professor and Chairman, Physiology Department, New York Medical College, Valhalla, NY 10595; telephone: 914-993-4089.

POSTDOCTORAL POSITION available to study the chemical and biophysical aspects of the photosynthetic oxygen-evolving complex. Experience in protein purification is desirable. Initial appointment for 1 year, renewable. Contact: Professor J. E. Penny-Harvey, Department of Chemistry, or Professor W. D. Frach, Department of Biology, University of Michigan, Ann Arbor, MI 48109. A Non-discriminatory, Affirmative Action Employer.

POSTDOCTORAL POSITION
A postdoctoral research position is available in the area of cellular and molecular biology of fertilization. Studies include molecular biology, biochemical and immunological analyses of sperm plasma membranes and sperm autoantigens and their role in fertilization. Applicants should have a recent Ph.D. with a strong background in biochemistry, molecular biology, or reproductive biology. Send curriculum vitae and the names of three references to: Dr. Michael G. O'Rand, Laboratories for Cell Biology, Department of Anatomy, University of North Carolina at Chapel Hill (UNC–CH), Chapel Hill, NC 27514. UNC–CH is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION available immediately in biochemical toxicology to study hepatotoxic effects of chemicals. Must understand enzyme chemistry. Send curriculum vitae and names of three references to: Dr. Craig Schnell, Dean for Graduate Studies and Research, North Dakota State University (NDSU), Fargo, ND 58105. Position closes 15 June 1987. NDSU is an Equal Opportunity Employer. 

CHAIRMAN

Biology Department

Biological Oceanographer is sought for Chairman, Biology Department, at the tenured senior scientist level. Department has announced a yearly budget of over $5 million, with 70 scientists, technical associates and support personnel, along with 19 graduate students in the MIT/WHOI joint program in biological oceanography. Candidates should have distinguished research/publications records, with demonstrated administrative and fund-raising skills. Teaching and sea-going experience desired. Interested, submit curriculum vitae and three references to: Dr. Stuart Calderwood, Joint Center for Radiation Therapy, New England Deaconess Hospital, 50 Binney Street, Boston, MA 02115. An Equal Opportunity/Affirmative Action Employer.

GIBCO/BRL Technical Services

Join Bethesda Research Laboratories' growing Technical Services Group. This group provides technical support for BRL products through the Tech-Line, workshops, seminars, Focus, and the applications laboratory. Innovative scientists with good communication skills and experience in all molecular and cellular biological techniques are sought for the following positions:

Staff Scientist (Ph.D.)
• Teach workshops
• Develop new applications in the laboratory
• Present techniques seminars
• Handle technical questions

Technical Specialist (B.S./M.S.)
• Handle technical questions
• Develop new applications in the laboratory
• Assist at workshops

These positions offer competitive salary and benefits. Travel is required. Send your resume in confidence to: Mr. Richard L. Hotaling, Jr., Personnel Manager, GIBCO/BRL Division, Life Technologies, Inc., 8717 Grovemont Circle Gaithersburg, MD 20877 Attn: Dept. NSS/8
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BIOLOGICAL SPECTROSCOPY

Postdoctoral Position

Battelle's Columbus Division, a world leader in professional research and development services, has a postdoctoral position currently available in the biomedical spectroscopy area. The position provides the opportunity to work in our challenging multidisciplinary environment.
A Ph.D. in Chemical Engineering, Bioengineering, Biological or the Chemical Sciences is required. Will conduct research applying Fourier transform infrared spectroscopy to: studies involved in the surface chemistry and the mechanism of adsorption of biological molecules to various surfaces; applying infrared spectroscopy to problems of molecular structure, development of new infrared techniques for studying biological molecules, development of techniques for studying cells by infrared spectroscopy. The position will be located in the Battelle-operated, NIH-funded National Center for Biomedical Spectroscopy. The position is a 1-2 year appointment. Individuals interested in this challenging opportunity should send resume and three letters of reference to: Dick Shaw, Employment Department J-2, Battelle Columbus Division, 505 King Avenue, Columbus, Ohio 43201-2603. An Equal Opportunity/Affirmative Action Employer M/F/H/V.

An equal opportunity employer, M/F/H/V.
The Breaking of Bodies and Minds
Torture, Psychiatric Abuse, and the Health Professions

A documentation of systematic use and effects of physical and mental torture throughout the world

Edited by Eric Stover
and Elena O. Nightingale
With a Foreword by
David A. Hamburg

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Paul Chodoff and Ellen Mercer
Toward the Prevention of Torture
and Psychiatric Abuse
Elena O. Nightingale and
Eric Stover

This eye-opening book brings together for the first time writings on the role of medical personnel in cases of torture and psychiatric abuse. Through analyses and case histories, psychiatrists and other health care professionals, political scientists, ethicists, and other writers discuss the systematic use and effects of physical and mental torture in the Soviet Union, Latin America, and other parts of the world.

The book also details the complicity of an alarming number of medical personnel in torture and psychiatric abuse and examines the ways in which governments use a medical rationale to seek legitimacy for human destruction. Finally, it describes efforts by medical and other associations both to combat offensive practices and treat victims.

The Breaking of Bodies and Minds is important reading for anyone concerned with the preservation of basic human rights.

1985
352 pages

Paperbound $11.95; AAAS members $9.50
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Published by
W.H. Freeman and Company
CHEMOTAXIS

POSTDOCTORAL POSITION available to study the mechanism of chemotaxis in eukaryotic cells, focused on the cAMP chemotactic receptor of Dictyostelium. Current approaches involve: (i) investigation of the basic biology of the receptor by mutant gene expression and expression of recently isolated receptor cDNA; (ii) isolation of receptor kinase(s) and phosphatase(s). Send curriculum vitae and names of three references to: Dr. Peter Devreotes Department of Biological Chemistry Johns Hopkins University School of Medicine Baltimore, MD 21205

POSTDOCTORAL POSITION IN MOLECULAR GENETICS to study the molecular heterogeneity of connective tissue disorders in humans. Applicants should have training in molecular biology. Send curriculum vitae and names of three references to: Dr. P. Tsipouras, University of Connecticut Health Center, Division of Human Genetics, L5090, 263 Farmington Ave, Farmington, CT 06032. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION—Available July 1987 for a biochemistry position to study the molecular mechanisms of bacterial adherence in the urinary tract. The project includes the purification and characterization of urinary tract proteins and glycoproteins. Experience with HPLC and immunological techniques preferred. Send curriculum vitae and references to: Dr. David Callahan, Department of Urology, Thomas Jefferson University, Philadelphia, PA 19107. Equal Opportunity Employment.

POSTDOCTORAL POSITION—Opportunity to join a multidisciplinary center (directed by J. Konisky and C. R. Woese) being assembled at the University of Illinois to study the molecular biology and physiology of archaea. The group will include microbiologists, molecular biologists, and computer scientists interested in the analysis of genome sequences, genome structure, genetic systems, gene expression, and phylogenetic analysis. Interested candidates should send a description of their research interests, curriculum vitae, and three letters of reference to: Dr. Jordan Konisky, Department of Microbiology, University of Illinois, 131 Burrill Hall, 407 South Goodwin Avenue, Urbana, IL 61801. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION—Membrane lipid biosynthesis: Applications are invited for a position available to carry out research on membrane lipid biosynthesis in bacteria. These studies concern the control of biayer stability in anaerobes. Experience with lipids and/or enzymes involved in lipid metabolism is desirable. Send curriculum vitae and request that three letters of recommendation be sent to: Dr. Howard Goldfine, Department of Microbiology, University of Pennsylvania, School of Medicine, Philadelphia, PA 19104-6076. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION: We have isolated two forms of hem oxygenase proteins with different molecular, regulatory and immunochromophores properties from rabbit reticulum. We study gene expression and the functional analysis of the proteins. The applicant should have a Ph.D. in biochemistry or related sciences and extensive experience in basic molecular biology techniques, particularly as applied to eukaryotic cells. The position will be available immediately. Send curriculum vitae and names of three references to: Dr. D. Blum, Department of Biophysics, University of Rochester School of Medicine, Rochester, New York 14642. The University of Rochester is an Equal Opportunity/Affirmative Action Employer. 

POSTDOCTORAL POSITION available to study unique functions of potassium channels in eukaryotic cells. The work will involve patch-clamp studies of native and recombinant potassium channels. Send curriculum vitae and names of three references to: Dr. J. Andrews, Department of Pharmacology, Bowman Gray State University, Winston-Salem, NC 27109. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately in cellular and transplacental immunology. Areas of research include marrow stem cell purification, monoclonal antibody development, and tolerance induction in murine and nonhuman primate models. Send curriculum vitae and three references to: Morton J. Cowan, M.D., Pediatric Bone Marrow Transplant Program, University of California San Francisco, San Francisco, CA 94143–0105. The University of California is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS—Postdoctoral positions are available immediately in the functional genomics laboratory of Steven McPherson, TIB MOLBIOL Inc. (San Diego, CA 92121). Current research is focused on the use of RNA interference to identify functional domains in genes. Applicants must have a strong background in molecular biology and histology. Send curriculum vitae and names of three references to: Dr. J. Andrews, Department of Pharmacology, Bowman Gray State University, Winston-Salem, NC 27109. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS AVAILABLE for work in the following areas of research: 1) Functional genomics of the Brattleboro rat: Use of gene targeting and promoter reporter constructs to examine the role of hormone-regulated promoters in the regulation of gene expression. 2) Identification and characterization of IGF-I and IGF-II receptor genes in normal and transformed cells. Send curriculum vitae and three references to: Dr. J. Andrews, Department of Pharmacology, Bowman Gray State University, Winston-Salem, NC 27109. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS—Two postdoctoral positions available in the laboratory of Dr. M. A. Johnson, Department of Pediatrics, University of California San Diego, 9500 Gilman Drive, La Jolla, CA 92037-0863. Research involves the analysis of protein and RNA structure and function by site-specific mutagenesis, RNA/DNA displays, and cell-free translation. Send curriculum vitae and names of three references to: Dr. M. A. Johnson Department of Pediatrics, University of California San Diego, 9500 Gilman Drive, La Jolla, CA 92037-0863. Equal Opportunity/Affirmative Action Employer.

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POSTDOCTORAL POSITIONS—Three postdoctoral positions are available immediately to work on the analysis of gene expression patterns in human tissues. The laboratory is interested in using microarray technology to study patterns of gene expression in various tissues and cell types. Three years of experience in molecular and cell biology is required. Send curriculum vitae and three letters of recommendation to: Dr. W. Ball, Laboratory of Developmental Molecular Biology, National Institute of Diabetes and Digestive and Kidney Diseases, National Institutes of Health, Bethesda, MD 20892. Equal Opportunity Employer.

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The Bristol-Myers Pharmaceutical Research and Development Division, at its new research facility in Wallingford, Connecticut, is seeking an exceptional Scientist for its Central Nervous System Electrophysiology Laboratory.

The successful candidate will join a team dedicated to applying the most modern techniques to developing and elucidating the pharmacologic therapies of the future. Will be responsible for carrying out experiments utilizing extracellular single cell recording techniques with in-vivo and/or in-vitro neuronal preparations as well as other related activities. This key position requires:

- M.S. Pharmacology, Physiology or related field, or B.S. with equivalent years of experience.
- 1 or more years experience with electrophysiological techniques.
- Ability to work independently.

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

For confidential consideration forward your resume, including salary history, in confidence, to: Department PD-SC 20 Bristol-Myers Company, Pharmaceutical Research & Development Division, P.O. Box 5100, 5 Research Parkway, Wallingford, Connecticut 06490. An Equal Opportunity Employer.

Bristol-Myers
Pharmaceutical Research & Development Division

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Professor of Genetics,
University of California, Berkeley
Director, Human Genome Center,
Lawrence Berkeley Laboratory

The Lawrence Berkeley Laboratory and the University of California at Berkeley are jointly seeking a person to serve as Director of the Human Genome Center and Professor of Genetics. The goals of this new Center are to carry out an extensive program in the physical mapping of the human genome and the application of this information to human genetics.

The successful candidate should be internationally recognized in fields of DNA mapping and/or sequencing and its implications for human genetics. The candidate should be able to demonstrate familiarity with the broad spectrum of activities to be pursued within the Center. In addition to providing the intellectual leadership for the Center, the Director must be a skilled administrator capable of the allocation, development and maintenance of the Center's staff and its financial and physical resources.

The University of California is an equal opportunity, affirmative action employer.

Please reply to Search Committee, c/o Professor G.M. Rubin, 401 Biochemistry Bldg., University of California, Berkeley, CA 94720 before July 1, 1987.
POSTDOCTORAL RESEARCH ASSOCIATE IN CALAMARI ELECTROPHYSIOLOGY

A position is available beginning July 1987 to study mechanisms and treatment of ischemia-related cardiac arrhythmias. Current approaches include cardiac mapping using a computerized multiplexer system, macroscopic and single-cell action potentials, and single- and double-fiber cell-clamping. Experience in single or multicellular voltage clamping techniques is preferred. Send curriculum vitae to: Dr. Donald Meyer, National Heart, Lung, and Blood Institute, Bldg. 38, Rm. 2N-36, Bethesda, MD 20892.

POSTDOCTORAL RESEARCH ASSOCIATE IN CELLCULTURE IMMUNOLOGY FOR PH.D. OR M.D.

Studies deal with human lymphocyte regulation, cell and gene cloning as part of a major program on the induction of Transplant Tolerance. Salary range from $24,000 to $34,000, depending on prior experience. Send curriculum vitae together with names of three references to: SETO, Department of Medicine, Yale University School of Medicine, 333 Cedar Street, New Haven, CT 06510.

POSTDOCTORAL RESEARCH ASSOCIATE . Position available immediately for a minimum of 2 years to participate in clinical motor control studies on patients with movement disorders. Should have some experience with electromyography and kinematic analysis of movement. Send curriculum vitae and three letters of reference to: Drs. R. Penfield and G. Goffleib, Division of Neurosurgery, Rush Medical College, 1653 West Congress Parkway, Chicago, IL 60612.

POSTDOCTORAL RESEARCH ASSOCIATE Position available immediately to study urokinase receptor binding, ligand binding and the urokinase receptor on rat brain and spinal cord. Background in neurobiology, molecular biology, protein purification, and analysis is essential. U.S. citizenship is required. Send curriculum vitae and three letters of reference to: Barry W. Pestoff, M.D., Professor and Medical Investigator, Neurosurgery Department, University of Minnesota, Duluth, MN 55812.

POSTDOCTORAL RESEARCH ASSOCIATE Position available immediately to study urokinase receptors in human glioblastoma. Experience in the area of protein chemistry preferred. Send curriculum vitae and three references to: Dr. Bruce S. Zwillinger, Department of Microbiology, The Ohio State University, 444 West 12th Avenue, Columbus, OH 43210. The Ohio State University is an Affirmative Action/Equal Opportunity Employer.
**BIOCHEMIST**

Dentsply International, a major international health care manufacturer, has expanded its operations with a new division engaged in progressive product research and development.

An excellent opportunity exists for a biochemist who will work with dental and medically oriented collaborators to design and carry out research programs related to product development. The individual will be responsible for accomplishing these tasks on a strict time schedule and will work with other Dentsply groups with the supplementary skills and equipment necessary to accomplish these tasks.

The ideal candidate will have:

- A BS or PhD in Biochemistry
- 2-5 years experience in an industrial or university research development setting
- Understanding of Pharmacology and methodology in formulating and testing chemical pharmaceutical products in-vitro
- Training in enzyme reactions, substrate specificity (preferably including synthetic substrate applications) desirably including experience in their practical application in diagnosis
- Understanding of monoclonal antibodies and their use in diagnostic procedures including immunofluorescence and enzyme linked assays.

Salary commensurate with experience and excellent fringe benefits package including Employee Stock Ownership Plan.

Direct your resume with salary requirements in confidence to:

Corporate Human Resources
Dentsply International
570 West College Avenue
P.O. Box 872
York, Pennsylvania 17405

An Equal Opportunity Employer

**POST-DOCTORAL TRAINING IN TUMOR IMMUNOLOGY AND IMMUNOBIOLGY**

Post-doctoral fellowships are available for training in various aspects of cancer research, including host immunity, immunochemistry, monoclonal antibody imaging and therapy, and molecular biology.

A strong background in cellular immunology, immunochemistry, protein chemistry, or molecular biology is desired. Applicants should send curriculum vitae, a short description of research interests, and the names of three references to:

Dr. David V. Gold, Associate Member

CENTER FOR MOLECULAR MEDICINE AND IMMUNOLOGY at the University of Medicine and Dentistry of New Jersey
One Bruce Street
Newark, NJ 07103

An Equal Opportunity Employer

**VIROLOGIST**

The Life Sciences Department of IIT Research Institute is seeking a Staff Virologist to participate in an on-going antiviral screening program. The individual will be responsible for the expansion of the program to include in-vitro and in-vivo studies. The position will also require participation in on-going immunology programs and preparation of research proposals seeking external funding.

The successful candidate will have a doctorate in virology and experience in in-vitro and in-vivo studies with retroviruses. Background in biochemistry or pharmacology is desirable.

IIT Research Institute is located in Chicago and offers competitive compensation as well as a full benefits package. Send resume with salary history and requirements to: Lucy Amtif, Dept. LF50, Senior Employment Representative, IIT Research Institute, 10 W. 35th Street, Chicago, IL 60616. Equal opportunity/affirmative action employer.

**MARINE BIOGEOCHEMIST**

The International Atomic Energy Agency seeks the services of a marine biochemist to be responsible for the Marine Organic Chemistry Unit in its International Laboratory of Marine Radioactivity in Monaco. The work of the group includes collaborative studies of the biochemistry of organic contaminants in the marine environment, the provision of assistance to regional pollution monitoring efforts of member states and the development and testing of applicable analytical techniques and methodology. A comprehensive knowledge of the behaviour and analysis of trace organic contaminants in the marine environment including the use of techniques such as GC-MS, HPLC, UV and IR spectrometry etc. is essential. Relevant field and direct laboratory experience must be demonstrated by the successful candidate.


Applicants are invited to send a complete C.V. to the Division of Personnel, I.A.E.A., Box 100, A-1400 Vienna, Austria quoting reference number VN 87/035.

**IMMUNOLOGISTS**

Unigene Laboratories, a multidisciplinary biotechnology research corporation, is seeking distinguished scientists for the following positions:

**GROUP LEADER**

A broad background in all aspects of Immunology, with strong emphasis in monoclonal antibody preparation and the formulation of immunoassays employing diverse methodologies, is essential. The successful candidate will have a prestigious publication record and several years of post-doctoral research experience or equivalent industrial experience. As the senior member of the Immunology group, this individual will also have administrative responsibilities and be required to interact with clients and collaborators. Polished verbal and written communication skills are highly desirable.

**SENIOR SCIENTIST**

A strong background in Immunology with significant experience in immunoassay technology and tissue culture methodologies is required. The successful candidate will have a Ph.D. degree and a record of accomplishment demonstrating novelty and creativity. Post-doctoral or industrial experience is desirable but not required.

Unigene offers a comprehensive benefits package and the opportunity to work in an environment which fosters continuing professional development. Please send a C.V. and three references in confidence to:

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110 Little Falls Road
Fairfield, NJ 07006

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RESEARCH ASSOCIATE/POSTDOCTORAL FELLOW: Applications are invited from qualified M.D. or Ph.D. candidates for studying regulation of cultured stromal cells and extracellular matrix
which focuses on monoclonal antibody-directed cell-mediated cytoxicity directed against malignant cells. Candidates should express interest in immunology
research, as well as strong background in biochemical
laboratory techniques. For consideration, please send
curriculum vitae and three references to: Dr. David
Thomas, Department of Pharmacology, College
of Medicine, University of South Alabama, Mobile,
AL 36688.

RESEARCH ASSOCIATE/STATISTICIAN
Applications sought for a Research Associate/Statistician (non tenure track) in the College of Pharmacy and Pharmaceutical Sciences at Florida A&M University beginning in June 1987. Applicants must have a Ph.D. in statistics with experience in experimental design, research methodology, and statistical evaluation. The successful applicant will be expected to establish his/her research program dealing with, but not limited to, cancer prevention, to provide service in statistics for professional and graduate students, and to assist in strengthening grant proposals.

Please submit curriculum vitae and three letters of recommendation by 31 May 1987 to: Dr. J. L. Early, Assistant Dean for Research, College of Pharmacy, Florida A&M University (FAMU), P.O. Box 3387, Tallahassee, FL 32303.

FAMU is an Equal Opportunity/Egal Access Institution.

RESEARCH PHYSIOLOGIST
The Physiology Department of the Armed Forces Radiobiology Research Institute (AFRRI), Defense Environmental Health Research Center, Duke University Medical Center, Durham, NC 27710. Duke University is an Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE—Major Philadelphia medical/research facility seeks doctoral level individual to establish and head a clinical and basic research program which focuses on monoclonal antibody-directed cell-mediated cytoxicity directed against malignant cells. Candidates should express interest in immunology
research, as well as strong background in biochemical
laboratory techniques. For consideration, please send
curriculum vitae and three references to: Dr. Thomas
Lodge, Department of Pharmacology, College
of Medicine, University of South Alabama, Mobile,
AL 36688.

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SENIOR RESEARCH POSITION: The Dana Farber Cancer Institute is seeking to fill a senior research position to study the regulation of oncogene expression in development. Strong background in molecular biologi
gene regulation plus at least 2 years of postdoctoral
experience in cell growth and biochemical and protein
nuclear acid interaction are required. Joint appointment will be held in an appropriate department of Harvard Medical School. Candidates should send curriculum
vitae and names of three references to: J. Eidelberg, Laboratory of Molecular Carcinogenesis, Dana Farber Cancer Institute, 44 Binney Street, Boston, MA 02115. An Equal Opportunity Employer.

SCIENCE CURATOR: Requirements are advanced degree in science; demonstrated writing and project management skills; experience in communicating science to nontechnical audience; develop exhibit proposals for funding, responsible for developing exhibit content in contemporary physics, chemistry, biology, and related fields. Send resumes to: Dr. David Ucko, Deputy Business Manager, Division of Science and Bed Indus
ty, 700 State Drive, Los Angeles, CA 90037. An Equal Opportunity Employer.

SOIL-PLANT RELATIONSHIPS/NUTRIENT CYCLING, ASSISTANT/ASSOCIATE PROFESSOR. Applications are invited for a 12-month, 9-month teaching/paid research, tenure-earning position available 1 September 1987. Experience required in soil-plant relationships and nutrient cycling on rangeland watersheds. Ph.D. in range
science, plant ecology, or closely related area required. Submit letter of application, curriculum vitae, and three letters of reference: Dr. L. L. Schussler, Department of Range Science, Texas A&M University, College Station, TX 77843-2126. Telephone: 409-845-5579.

Applications should be completed by 30 April 1987. Texas A&M is an Equal Opportunity/Affirmative Action Employer.

SYMPOSIUM
INTERNATIONAL SYMPOSIUM
On the "Experimental and Theoretical Analysis of Metabolic Processes," Flashhead Lake Lodge, Bigfork, Montana, 9 to 13 September 1987. For information contact: ASM Meetings Department, 9131 I Street, NW, Washington, DC 20006.
Postdoctoral position in biochemistry, to investigate the role of ascorbic acid as a cofactor in cultured cells and subcellular organelles using in situ enzyme engineering, or to investigate ascorbic acid biosynthesis and its regulation. Applicants should have experience in biochemistry, enzymology, or recombinant DNA techniques. M. Levine, Building 8, Room 414, (telephone 301-496-3304).


Postdoctoral position in molecular biology and recombinant DNA, to join a project to analyze trans-acting gene regulation mediated by HIV-III tat gene and its interaction with other viral and cellular genes. Candidate should preferably have experience in molecular biology and recombinant DNA research. Barrie J. Carter, Building 8, Room 304 (telephone 301-496-0604).

Postdoctoral position in molecular endocrinology, to investigate the mechanism of action of glucocorticoid and anti-glucocorticoid, steroid, and locally produced factors in regulating the levels of receptor-steroid interactions and activation of gene transcription. Experience in the areas of biology, molecular biology or endocrinology is desirable. S. Stoney Simonis, Jr., Building 8, Room B2A-07 (telephone 301-496-6796).

Postdoctoral position in mammalian developmental biology, to study the mechanisms that control gene expression during oogenesis and early development of the mouse. The research involves a wide range of molecular experimental approaches. Ideally, candidates will be trained in current DNA/RNA methodologies and have a working knowledge of mouse embryology. There are no citizenship restrictions on this position. Jurrien Dean, Bldg. 6, Room B108 (telephone 301-496-6125).

Postdoctoral position in immunochemistry, to investigate cell receptors for antibodies responsible for cytopenias induced by allo- and auto-immunization and drug sensitization. Applicants should have experience in protein and peptide chemistry, immune assays generally and general biochemistry. N. Raphael Shulman, Bldg. 10, Room 8C101.

Postdoctoral position and technician, to join a team measuring changes in energy and structural rearrangements during voltage- and ligand gating of ionic channels with patch clamp and phospholipid bilayers (cf Nature, 232:36-39 (1986)), and to relate these changes to directly measured forces between macromolecules. Applicants should have a background in electrophysiology, biochemistry/molecular biology or physical or biophysical chemistry. Adrian Parsegian, Donald C. Rau, and Joshua Zimmerberg, Bldg. 10, Room 9N307 (telephone 301-496-1241).

Postdoctoral position in molecular biology, to study the DNA structure and regulation of the genes involved in polymerase biosynthesis in Escherichia coli and yeast. Celia Tabor and Herbert Tabor, Building 8, Room 223, (telephone 301-496-2562).

Postdoctoral position in molecular biology, to study the mechanism of duplex DNA replication in bacteriophage T4 as a model system for transcriptional regulation of the T4 genome, especially T4 genes needed for DNA replication. Applicants should have a background in nucleic acid and protein biochemistry. Nancy G. Nossal, Bldg. 8, Room 2A-19 and Deborah Hinton, Bldg. 8, Room 2A-13 (telephone 301-496-2724).

Postdoctoral position in molecular biology, to apply recombinant DNA technology to define the molecular mechanisms of disease in patients with genetic forms of insulin resistance, especially patients with mutations in the gene encoding the insulin receptor, S.J. Taylor, Building 10, Room BN-250, (Telephone: 301-496-2596).

Postdoctoral position in molecular biology, to study the roles of genes, second messengers and DNA binding proteins in development in Drosophila. Applicants should have experience in general molecular biology and biochemistry. Alan Kimmel, Building 6, Room B112.


Qualified applicants should send a curriculum vitae, bibliography, short statement of research interests, and the names of three references to the appropriate person at the NIDDK, NIH, 9000 Rockville Pike, Bethesda, MD 20892. Appointments can be offered to both U.S. citizens and other qualified applicants.

The NIH is located in Maryland close to Washington, D.C. It has nearly 3000 scientists carrying out research in 12 Institutes. The intramural program of the NIDDK has over 500 doctoral level scientists working on a broad range of basic and applied biomedical problems in 21 different groups.

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