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The P/ACE capillary electrophoresis system for automated DNA analysis provides advantages over traditional gel electrophoresis methods for size polymorphisms, DNA quantitation, synthetic oligonucleotide purity analysis, mutation analysis, and protein-DNA interaction. The system automates the separation, quantitation, analysis, and documentation of oligonucleotides, polymerase chain reaction products, and restriction fragments. Automated sample handling capabilities eliminate time-consuming manual sample loading and gel preparation. Automatic quantitation, through on-capillary detection, results in further time and cost savings. Beckman Instruments. Circle 145.

**Literature**
*Purification of Nucleic Acids* is a booklet that outlines the latest liquid chromatography methods used to separate, analyze, and purify oligonucleotides, DNA and RNA restriction fragments, polymerase chain reaction generated fragments, and plasmids. Illustrated examples of reversed phase, ion exchange, size exclusion, and hydroxyapatite chromatography modes are included along with an extensive bibliography of journal articles. Tosohaas. Circle 146.

1996 spring books lists 42 recently released publications covering a diverse range of topics, including cell biology, immunology, molecular biology, protein chemistry, and spectroscopy. Sigma Chemical. Circle 147.


Vacuum Products is a 1000-page catalog offering a comprehensive selection of hardware, instrumentation, and accessories for rough, high, and ultra-high vacuum. Kurt J. Lesker. Circle 149.

Gas Chrom Newsletter keeps gas chromatographers current with new product developments and applications. Every issue includes instructional material for both the novice and the experienced user. Alltech Associates. Circle 150.

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Purdue University’s School of Veterinary Medicine is seeking an outstanding leader to head the Veterinary Pathology Department. Candidates must represent a discipline in the unit, be familiar with modern molecular technologies and their application to veterinary medicine; have a broad understanding of the diagnostic and experimental disease of both infectious and non-infectious origins; possess a record of excellence in research and teaching; and have a record of extramural funding. Strong interdisciplinary skills and experience in administration and multidisciplinary units are desirable. Incumbent shall have the ability to plan, coordinate, and supervise health diagnostic activities and have strong commitment to excellence in our educational programs—veterinary professional, veterinary technology, human medical professional, and graduate. Candidates shall have vision and leadership skills needed to direct this multidisciplinary academic unit of 27 faculty and 39 graduate students. Applications must be submitted before September 1, 1996, or until filled. Send application with letter of intent, curriculum vitae, and names of four references to: Dr. John F. Van Vleet, Head, Search Committee, Veterinary Department, 1243 Veterinary Pathology Building, Purdue University, West Lafayette, IN 47907-1243. Purdue University is an Affirmative Action/Equal Opportunity Employer. Women and minority applicants are strongly encouraged to apply.

ASSISTANT PROFESSOR/SUPERINTENDENT position with New Mexico State University at the Agri-cultural Science Center in Los Lunas, New Mexico, located 28 miles south of Albuquerque, New Mexico. Tenure track position with graduate faculty appointment 60% research, 40% administrative. Supervise and conduct research on improved irrigated farming systems and urban horticulture problems. Qualifications include Ph.D. in agricultural or related field. Must be knowledgeable in irrigated production systems. Submit written letter of application, current résumé, official transcripts, and addresses of at least three references by August 15, 1996 to: Dr. LeRoy A. Daugherty, Chairman, Search Committee, New Mexico State University, Box 30003, Department 3Q, Las Cruces, NM 88003. Telephone: 505-646-3406; FAX: 505-646-6041. New Mexico State University is an Equal Opportunity/Affirmative Action employer. Women and members of minority groups are encouraged to apply.

ASSISTANT PROFESSOR position in Veterinary Immunology/Immune Therapy of Cancer and related conditions. SENIOR LEVEL position with responsibility for outsourcing and supervising contract manufacturing of diverse products for clinical trials including lipopolysaccharide and recombinant protein products manufactured in baculovirus and E. coli expression systems, and liposomal formulations. Prior industry experience in contract manufacturing and knowledge of quality control and regulatory affairs essential. The successful candidate will have excellent scientific and communication skills and the ability to lead an R&D team. Applications should be submitted to: Dr. Anthony E. Maida III, M.A., M.B.A., Chief Executive Officer, Jenner Technologies E28 Eastborough Drive, Danville, CA 94506-1206. FAX: 510-736-5910. Email: VAXP@AOL.COM.

EAST TENNESSEE STATE UNIVERSITY

ASSISTANT PROFESSOR (Research Track)—Program is on the molecular basis of autoimmune disease, particularly with regard to the roles of macrophage and the inflammatory response. A background in the molecular and cell biology of either steroid trafficking or macrophage function is desirable. Techniques include: protein chemistry (e.g. FPLC, SDS-PAGE, immunoprecipitation); cell biology (transfection, immunofluorescence); and molecular biology constructs (site directed mutagenesis). Qualifications: Ph.D. in cell biology/chemistry/molecular biology with at least three years of related experience. Start date is flexible but will be available by December 1, 1996. Starting salary will be $45,000 per year plus benefits. Send curriculum vitae to: Dr. Michael Simensky, East Tennessee State University, Box 70581, Johnson City, TN 37614-0581. East Tennessee State University is an Affirmative Action/Equal Opportunity Employer. Position contingent upon grant funding.

FACULTY POSITION

The Division of Endocrinology, Diabetes and Metabolism (Department of Medicine) at the University of Pennsylvania School of Medicine invites applications from physician-scientists for a FACULTY POSITION. Candidates who will develop or maintain an excellent basic research program related to diabetes are sought. Areas of potential interest include, but are not limited to, hormone action, signal transduction, obesity, genetics, metabolism, membrane protein structure and function. Academic rank and financial support will be commensurate with the needs and experience of the successful candidate. Please send curriculum vitae, a brief description of research interests, and names of three references to: Dr. Morris J. Birnbaum, M.D., Ph.D., University of Pennsylvania, Room 322 Clinical Research Building, 415 Curie Boulevard, Philadelphia, PA 19104-6148. The University of Pennsylvania is an Affirmative Action/Equal Opportunity Employer, and applications from women and minorities are welcomed.

MRI FACULTY POSITIONS—University of Kentucky Medical Center

The Department of Anatomy and Neurobiology and the Sanders-Brown Center on Aging invite applications for two tenure-track positions in Magnetic Resonance Imaging or Spectroscopy Research. The successful candidates will be at either the ASSOCIATE or ASSOCIATE PROFESSOR level, depending on experience and qualifications. Successful candidates will play a significant role in establishing strong extramurally funded research programs using MRI in the areas of stroke, aging of the nervous system, and/or neurodegenerative diseases. The Research Imaging Center at the University has a 1.5 T Siemens VISION unit with high performance gradients, EPI and multineural spectroscopic capabilities, and a 4.7 T Vantage system. Applicants should have an M.D., Ph.D. or equivalent degree. Applicants should send curriculum vitae, a short statement of research interests, and the names of three references to: Dr. Don M. Gash, Chair of Search Committee, Department of Anatomy and Neurobiology, Chandler Medical Center MN224, Lexington, KY 40536-0084. The University of Kentucky is an Equal Opportunity Employer.
Public Invitation to Participate in a Research and Development Project on Broad Area Energy Utilization Network System (Eco-Energy City Project)

Announced by the New Energy and Industrial Technology Development Organization on July 5, 1996

In order to promote new energy technologies, the New Energy and Industrial Technology Development Organization (NEDO) would like to invite all interested companies and research organizations to apply to us with new R&D proposals regarding R&D criteria of the Eco-Energy City Project.

After receiving your applications, we will start the evaluation of the proposals regarding their possibilities and finally select suitable ones adopted to new R&D items of the Eco-Energy City Project.

Through the entrustment contract on budget etc., they may start from Fiscal 1997 (from April, 1997) as new research themes.

1. Theme of the Research and Development Project:
   "Broad Area Energy Utilization Network System (Eco-Energy City Project)"

2. Process of Application:
   Through the application, we evaluate new R&D proposals according to the object and content of our project in order to add new R&D items and renovate our project. Received proposals shall be evaluated and selected through the due system of NEDO based on whether they are suitable for our project from the standpoint of its social value, fitness, and effectiveness for the project.

3. Outline of the Research and Development Work to be Entrusted:
   Energy consumption of cities has been dramatically increasing and pollution of cities has become serious. These are main factors that affect long term energy supply of the nation and global environmental problems. It is now necessary to build highly efficient energy supply systems in cities to minimize energy consumption and environmental pollution.

   The purpose of the Eco-Energy City Project is to establish a newly combined energy supply system and unified city infrastructure in cities and to promote building cities with high efficiency of energy utilization and low levels of environmental load (pollution).

   Technological fields of R&D of the Eco-Energy City Project are as follows:
   (1) Recovery and conversion technologies of the unused energy
       This is to develop technologies to recover energy from waste heat of industrial sites in and around cities and convert it to use for other purposes.
   (2) Energy transport and storage technologies
       This is to develop energy transport and storage technologies in order to construct efficient energy utilization network systems in and around cities.
   (3) Energy supply and utilization technologies
       This is to develop energy supply and utilization technologies in order to supply energy to cities and peripheral industrial sites according to their complicated energy demand.
   (4) Environmental improving technologies
       This is to develop technologies to decrease the emission of pollutants through activities to better use energy in and around cities and to create a better city environment.
   (5) Peripheral elementary technologies such as measuring technologies
       This is to develop technologies such as measuring technologies related to above-mentioned elementary technologies.
   (6) Optimum system design technologies
       This is to develop optimum system design technologies regarding system planning, controlling, and evaluation in order to construct various kinds of energy network systems using above-mentioned technologies.

4. Procedures for Application:
   Please apply your proposal according to NEDO’s instructions.

   (1) Qualification Criteria
   All companies or research organizations that meet the following qualification criteria can submit an application to participate in our project:
   1. The applicant must have previous research and development experience in the field covered by or related to the project and possess the organizational structure, human resources, and research facilities required to carry out the project work.
   2. The applicant must be in economically sound condition and have the ability to manage its finances and facilities as necessary to smoothly carry out the project work.
   3. The applicant must be able to comply with NEDO’s instructions, if such are necessary, to fulfill the project work.
   4. The applicant must have attended the explanatory meeting held by NEDO as set forth in item (2) below or been represented at the meeting by a responsible agent or representative who is capable of accurately conveying the contents of the meeting in detail.

   (2) Explanatory Meeting
   An explanatory meeting will be held on the date shown below in order for NEDO to fully explain the details of the project’s research and development work to be entrusted and the application document to be submitted. All companies or research organizations that are interested in submitting an application to participate in the project are required to attend this meeting or to send an agent or representative to attend on their behalf. Only Japanese will be used during the meeting.

   Date: July 17, 1996
   Time: 14:00 to 15:00
   Place: NEDO Head Office
           Sunshine 60 Building
           30th Floor, Special Conference Room
           1-1, Higashi-ikebukuro 3 Chome, Toshimaku, Tokyo 170

   (3) Deadline
   Deadline for Proposals is 12:00, September 6, 1996.

   (4) Further Information
   For further information regarding the research and development work for entrustment, please contact NEDO by telefax as follows:
   New Energy and Industrial Technology Development Organization
   Contract Division, Accounting Department
   28th Floor, Sunshine 60 Building
   1-1, Higashi-ikebukuro 3 Chome, Toshimaku, Tokyo 170
   Telefax: 03-5992-1184
Faculty Position in Biophysics
University of California, Los Angeles

The Departments of Physics and Astronomy, Chemistry and Biochemistry and the Jules Stein Eye Institute invite applications for a senior faculty position in experimental biophysics. Exceptionally well-qualified junior applicants will also be considered for appointment at the assistant or associate professor level. Applicants should have a demonstrated ability to pursue an independent research program that involves collaboration with biochemists and molecular biologists. We are particularly interested in biophysicists with expertise in advanced probes such as optical methods, force microscopy, magnetic resonance, x-ray scattering, and the use of genetic manipulation. However, highly qualified individuals with interests in other areas of biophysics will be considered.

This search is being conducted jointly by the Physics and Astronomy, Chemistry and Biochemistry Departments of UCLA in collaboration with the Jules Stein Eye Institute of the UCLA Medical School, which has active biophysics-related research programs that include protein-folding, electron spin resonance, signal processing within cells, and molecular mechanisms of membrane transduction. The successful applicant would establish an affiliation with JSEI, ranging from an informal research collaboration to a joint faculty appointment, and would be expected to stimulate a biophysics teaching program.

Applicants should send a resume, a research statement, and names of at least three references to F. V. Coroniti, Chair, Department of Physics and Astronomy, University of California, Los Angeles, CA 90095-1547. For full consideration, applications should be received by September 15, 1996. The University of California is an affirmative action/equal opportunity employer.

ENDOWED CHAIRS

The Department of Pathology of the Vanderbilt University School of Medicine is pleased to announce the appointment of Professor Robert D. Collins as the first John L. Shapiro Chair in Pathology. The Department is seeking nominations for two additional senior faculty to be conferred with Endowed Chairs in the Department. These Chairs honor Professor Ernest W. Goodpasture, and Dorothy B. and Theodore Austin. The Department of Pathology has a distinguished history, a devotion to teaching, and an outstanding record of clinical service, clinical research, and residency and fellowship training. The basic research program is highly focused and excellent, and there is a well-established Ph.D. program within Vanderbilt's Interdisciplinary Graduate Program. Current areas of research strength are cancer, neurotoxicology and neurodegenerative disease, vascular and extracellular matrix biology, AIDS, and renal disease. Environmental pathology, broadly defined, is the recruiting theme for these Chairs. The two Chairs will investigate the contributions of genetics, aging, and environmental toxicants to the pathogenesis of disease. The holder of one Chair will focus on basic cancer research. Candidates must be M.D. or M.D./Ph.D. pathologists with qualifications commensurate with the rank of Professor, and should have a distinguished record in teaching, scholarship, peer-reviewed funding, and the mentoring of academic pathologists.

Vanderbilt University is an Equal Opportunity employer, and women and minorities are encouraged to apply.

Letters of interest should be sent with a curriculum vitae and three references to:

Doyle G. Graham, M.D., Ph.D.
Professor and Chair
Department of Pathology
C-3322 Medical Center North
Vanderbilt University Medical Center
Nashville, TN 37232
The Division of Cancer Prevention and Control (DCPC), NCI, is accepting applications for the Cancer Prevention Fellowship Program (CPFP). The purpose of this program is to train individuals from a multiplicity of health science disciplines in the field of cancer prevention and control. The program provides for: Master of Public Health training (at accredited university programs); participation in the DCPC Cancer Prevention and Control Academic Summer Course (open to physicians and scientists interested in specialized instruction on the principles and practice of cancer prevention and control); working directly with individual preceptors at DCPC on cancer prevention and control projects; brief field assignments in cancer prevention and control programs at other institutions. Funding permitting, Fellows will be accepted for up to three years of training, beginning July 1, 1997. Benefits include selected relocation and travel expenses, paid federal holidays, and participatory health insurance.

ELIGIBILITY
M.D., D.D.S., or D.O. from a U.S., territorial, or Canadian Medical School. Foreign medical graduates must have current USMLE or ECFMG certification and appropriate experience, e.g., one year residency in a training program approved by the Accreditation Council for Graduate Medical Education.

OR
Ph.D. or other doctoral degree in a related discipline (epidemiology, biostatistics, and the biomedical, nutritional, public health or behavioral sciences). Foreign education must be comparable to that received in accredited U.S., territorial, or Canadian institutions.

PLUS
The applicant must be a U.S. citizen or resident alien eligible for citizenship within four years.

For details and an application catalog either call, fax, email, or send a postcard or letter with your name, home address, and where you heard about the program to:

Douglas L. Weed, M.D., M.P.H., Ph.D.
Director
Cancer Prevention Fellowship Program
Division of Cancer Prevention and Control
National Cancer Institute
Executive Plaza South, Suite T-41
6130 Executive Blvd MSC 7105
Bethesda MD 20892-7105

Further inquiries: Mrs. Barbara Redding, Telephone: (301) 496-8640; Fax: (301) 402-4863; email: reddingb@dcpceps.nci.nih.gov

DEADLINE FOR RECEIPT OF APPLICATIONS: SEPTEMBER 1, 1996

NIH is an Equal Opportunity Employer
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Onyx Pharmaceuticals, Inc. is a growing research-driven biotechnology company headquartered in the San Francisco Area. We are dedicated to the discovery and development of novel therapeutics based on the genetics of human disease, with an initial focus on cancer. Our continued growth has created several outstanding opportunities for a handful of creative professionals with a strong background in virology.

These key positions will help expand our program in replicating viruses targeted at cancer cells, and help to develop new programs in therapeutic viruses targeting other diseases. Candidates must possess a Ph.D.; at least 5 years of postdoctoral industrial or academic experience with publications in the field; a solid understanding of molecular virology; working knowledge of the biology of cancer and/ or of chronic viral diseases; and the ability to work independently, and as part of a talented, interdisciplinary research team.

We offer an attractive salary/benefits/relocation package, including stock options & stock purchase plan. If living in the Bay Area and an exciting career with an innovative company pioneering a new therapeutic field sounds good to you, please send or fax your resume to: ONYX Pharmaceuticals, Attn: Virology Research, 3031 Research Dr., Richmond, CA 94806. Fax: (510) 222-9387 or e-mail to: denise@onyx-pharm.com. EOE

U.S. DEPARTMENT OF ENERGY
DIRECTOR
ENVIRONMENTAL SCIENCES DIVISION
OFFICE OF HEALTH AND ENVIRONMENTAL RESEARCH
$100,526 to $122,688 per annum

The U.S. Department of Energy is seeking applicants for the Senior Executive Service position of Division Director, Environmental Sciences Division (ESD), Office of Health and Environmental Research (OHER), in the Office of Energy Research. The incumbent is the principal Department of Energy official responsible for planning, implementing, and directing the Environmental Sciences Research Program, including research carried out by universities, national laboratories, and private institutions (involving over $300 grants, contracts, and interagency agreements). Notable programs within the Environmental Sciences Division include the Department's Global Change Program, Bioremediation, and basic science in support of improved methods for environmental restoration. The Director of ESD must also work as a member of the OHER management team on numerous crosscutting initiatives, and with the Office of Environmental Management, DOE, and other components of DOE. A Ph.D. (or equivalent training and experience) in one of the scientific disciplines within the scope of the Division such as global change, atmospheric science, chemistry, engineering, marine biology, or environmental biotechnology; and significant experience as an administrator in government or the private sector are necessary.

To be eligible for consideration, applicants must meet all executive core qualifications and the specific technical qualification requirements. A supplemental statement must be included addressing each of the qualification requirements. Details of all information required to apply and further information should be obtained from the address below.

Exceptional difficulty in recruiting highly qualified candidates may be the basis for paying a recruitment or relocation bonus (up to 25% of base pay) and/or requesting approval of a dual compensation waiver for civil and uniformed services retirees.

Applications must be postmarked no later than August 1, 1996. Direct inquiries to: Office of Executive and Technical Resources, HR-34, 4E-060, FORS, DOE, Washington, DC 20585. The Department is an equal opportunity employer. U.S. citizenship is required.

CHAIR OF EXCELLENCE
BIOMEDICAL ENGINEERING
THE UNIVERSITY OF MEMPHIS
Search Continued

An endowed Chair is being offered to candidates who have shown consistent evidence of research excellence, leadership, and teaching ability. The qualifications of the candidate should be commensurate with an appointment as full professor. Areas of emphasis are the mechanics of cells or tissues, biomaterials, or electrocardiology/instrumentation, although other areas that are complementary to the interests of both the program and the existing faculty, such as cell biology, bio-fluid dynamics, thrombosis, and microcirculatory behavior, will also be considered. A significant record of research funding is essential. In addition to salary guarantees, the Chair offers significant resources to help establish an initial research program. This position will be filled as soon as feasible and will remain open until filled.

The Department of Biomedical Engineering at The University of Memphis is part of a joint graduate program with the University of Tennessee, Memphis, a development enhanced by the receipt of a Special Opportunity Award from the Whitaker Foundation by the two institutions. The program consists of over 75 students and 16 tenure-track faculty members, including 4 endowed Chairs. Substantial resources are available to the joint program: the facilities of two major universities; several teaching hospitals in a major medical center, the nationally known St. Jude Children’s Research Hospital; and three major implant manufacturers.

Interested applicants should send a CV, a summary of their research plans, and the names of three references to: Dr. Vincent Turitto, Chair, Department of Biomedical Engineering, The University of Memphis, Memphis, TN 38152 (vturitto@cc.memphis.edu).

The University of Memphis is an Equal Opportunity/ Affirmative Action Employer

GLOBAL CAREER OPPORTUNITIES

NIRIM
POST-DOCTORAL RESEARCH FELLOWSHIP

Applications of several excellent post-doctoral researchers are invited for the NIRIM COE (Center of Excellence) Research Fellowship in FY1997. Applicants are requested to join the COE Project in NIRIM, where search for and synthesis of new denser materials are carried out by using ultra high pressure techniques of a diamond anvil cell with laser heating system, a single and a double stage gun-type shock compression apparatus, and a large belt-type apparatus. Applicants must provide a well defined research proposal to be carried out within these scopes. The fellowships will be awarded for a period between August 1997 and March 1998. Salary is about $4000/m. A round trip flight ticket and a fixed moving allowance will be provided.

Application forms (returnable by 30th Sept. 1996) and further particulars can be obtained from: COE Secretariat, National Institute for Research in Inorganic Materials, 1-1 Namiki, Tsukuba, Ibaraki 305, Japan

Tel: +81-298-55-2142
Fax: +81-298-52-7449
e-mail: kobayam@nirim.go.jp
University of Illinois at Chicago
Director of Neuroscience

Research in neuroscience at UIC is currently conducted by approximately 60 faculty in basic science and clinical departments. UIC is committed to expanding and enhancing its neuroscience programs. In enhancing existing programs, the Director will be instrumental in the recruitment of additional neuroscience faculty. We seek an individual who will create an environment conducive to excellence by coordinating and stimulating the development of research, education, and training in neuroscience.

The Director will be provided with adequate resources and full time administrative support. Appointment requires qualifications as a tenured Professor.

Nominations and applications should be sent to:
Assistant Dean Lillye Hart
Neuroscience Search Committee
Dean's Office
University of Illinois at Chicago
1853 W. Polk Street, Room 131
(M/C 784)
Chicago, Illinois 60612

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

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As a key member of our Molecular Endocrinology Department, this individual will develop and study novel ligands directed against ion channels.

This position requires a BS or MS in a Biological Science discipline with a minimum of 1 year relevant experience. Previous experience with patch clamp and/or molecular biology techniques is strongly desired. Candidate must have excellent teamwork/communication skills and the ability to interact with other scientists.

The rewards of working at Glaxo Wellcome include an excellent salary and a flexible benefits package. For confidential consideration, send your resume, which MUST include position title and salary history, to: Human Resources, Job #ASC1797-1, Glaxo Wellcome, P.O. Box 13398, Research Triangle Park, NC 27709. (No Phone Calls or Agency Referrals, Please.) An Equal Opportunity Employer M/F/D/V.

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Working Together for A Healthier World

Vice President for Research

Case Western Reserve University invites applications and nominations for the new position of Vice President for Research. The Vice President will provide leadership for the development, implementation, and communication of policies and programs affecting research and research commercialization throughout the university, and for linking research activities to economic development in the community at large. Reporting to the Provost, the Vice President will participate in the university's senior planning and policy-making bodies, and will work closely with the President, Provost, deans, and faculty leadership in determining research priorities.

CWRU ranks 31st among all universities in the nation, and 15th among private universities, in federal awards to support research and development. External awards for research from all sources in the fiscal year ending June 30, 1995 were $159.3 million.

Qualifications include extensive knowledge of and experience with research as a principal element in a high-quality academic institution, understanding of the issues and opportunities facing major private research universities, and familiarity with the federal research establishment and the regulatory and legal environment for research and technology transfer. The successful candidate should demonstrate understanding of the research and development needs of industry and the processes through which campus-based technologies reach the market. A Ph.D. or other research-based advanced degree is highly desirable.

Applications and nominations should be addressed to:
Chair, Search Advisory Committee for Vice President for Research
c/o Office of the Provost
Case Western Reserve University
10900 Euclid Avenue
Cleveland, OH 44106-7004

Review of materials will begin immediately and continue until an appointment is made. To ensure full consideration, applications and nominations should be received by August 15, 1996.

CASE WESTERN RESERVE UNIVERSITY

In employment, as in education, Case Western Reserve University is committed to affirmative action and equal opportunity.
Announcing the 4th Annual
BS/MS Careers Issue
August 30, 1996

Get BS/MS students excited about career opportunities at your company or university. SCIENCE Magazine offers you a once-a-year opportunity to reach the best science students and tell them about your employment opportunities in the August 30, 1996 BS/MS special advertising supplement.

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Make sure your message gets the impact you need. Run a full page ad and reach our regular subscriber base of over 160,000. In addition, your ad receives bonus distribution to students in 151 of the top biology and chemistry programs around the U.S. in a special reprint of the BS/MS advertising section.

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Do you need to reach a diverse pool of candidates? When you advertise in the BS/MS Careers issue your advertisement will get special distribution to U.S. colleges and universities with historically high minority enrollment.

Start planning your advertisement now!
It’s never too soon to start planning your full page recruitment message. By advertising in SCIENCE, you’ll increase your chance of reaching the best candidates first. Get scientists excited about your employment opportunities.

Placing your ad is easy!
In the U.S., call Janis Crowley at (212) 496-7704 or fax (202) 289-6742. In Europe, call Debbie Cummings at +44 (0) 1223 302067 or fax +44 (0) 1223 567208.

Advertising deadline: August 13, 1996.

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<td>Washington University</td>
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The nation’s top schools for biological sciences, various chemistry disciplines and clinical medicine ranked by the Institute for Scientific Information’s Science Watch, as well as the top 20 schools from U.S. News & World Report’s America’s Best Colleges issue. *Denotes institution with historically high minority enrollment.
**DIRECTOR, DIVISION OF KIDNEY, UROLOGIC, AND HEMATOLOGIC DISEASES (DKUHHD)**

The National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), located in Bethesda, MD, is seeking an outstanding physician for the position of Director, Division of Kidney, Urologic, and Hematologic Diseases (DKUHHD). This is a Senior Executive Service (SES) permanent full-time position with a salary range of $100,526 to $122,688 per annum commensurate with qualifications. Applicants must demonstrate research experience and knowledge of research programs in one or more areas related to kidney, urologic, and hematologic diseases. May be eligible for Physicians Comparability Allowance of up to $20,000 per year. A recruitment bonus of up to 25% may be available to a non-Federal applicant. **The deadline for receipt of application is July 31, 1996.**

The Director, DKUHHD, is the principal advisor to the Director, NIDDK, on matters and policies pertaining to research grants, contracts, training and specialized programs in kidney, urologic, and hematologic diseases including basic and applied research, training fellowships and institutional training awards, and clinical trials. Additionally, the incumbent may have the opportunity to conduct independent research projects in the area of kidney, urologic and hematologic diseases.

**FOR MORE INFORMATION CONTACT MS. JOANNA VOIGHT, NIDDK PERSONNEL OFFICE, BLDG. 31, ROOM 9A30, 9000 ROCKVILLE PIKE, BETHESDA, MARYLAND 20892; (301) 496-4231.**

U.S. Citizenship Required / NIH is an Equal Opportunity Employer

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**U.S. DEPARTMENT OF ENERGY**

**DIRECTOR**

**HEALTH EFFECTS AND LIFE SCIENCES RESEARCH DIVISION**

**OFFICE OF HEALTH AND ENVIRONMENTAL RESEARCH**

$100,526 to $122,688 per annum

The U.S. Department of Energy is seeking applicants for the Senior Executive Service position of Division Director, Health Effects and Life Sciences Research Division (HELRD), Office of Health and Environmental Research (OHER), in the Office of Energy Research. The incumbent is the principal Department of Energy official responsible for planning, implementing, and directing the Life Sciences Research Program, including research carried out by universities, national laboratories, and private institutions (including over 300 grants, contracts, and interagency agreements). Notable programs in the HELRD include the Department's Human Genome Program, Structural Biology, and Microbial Genome. The Director of HELRD must also work as a member of the OHER team on numerous crosscutting initiatives, such as molecular nuclear medicine and other medical applications of energy; and basic science in support of improved methods for environmental restoration including bioremediation, and with other components of DOE and other agencies. An M.D., M.D./Ph.D., or Ph.D. (or equivalent training and experience) in molecular and cellular biology, structural biology, analytical instrumentation, chemistry, biotechnology or biomedical technology; and significant experience as an administrator in government or the private sector are necessary.

To be eligible for consideration, applicants must meet all executive core qualifications and the specific technical qualification requirements. A supplemental statement must be included addressing each of the qualifications. Details of all information required to apply and further information should be obtained from the address below.

Exceptional difficulty in recruiting highly qualified candidates may be the basis for paying a recruitment or relocation bonus (up to 25% of base pay) and/or requesting approval of a dual compensation waiver for civil and uniformed services retirees.

Applications must be postmarked no later than August 1, 1996. Direct inquiries to: Office of Executive and Technical Resources, HR-34, 4E-060, FORS, DOE, Washington, DC 20585. The Department is an equal opportunity employer. U.S. citizenship is required.

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**NEUROPHARMACOLOGIST/BIOCHEMICAL PHARMACOLOGIST POSITION**

**DEPARTMENT OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS**

Loyola University Chicago, Stritch School of Medicine

A unique opportunity to become involved in an exciting new research project is available immediately. The candidate will be instrumental in implementing pharmacological and neurochemical strategies relating to inflammatory processes and neurodegeneration. The position will allow considerable autonomy. All necessary technical and research support will be provided.

Requirements for this non-tenured position include: 1) formal training in pharmacology, with a Ph.D. degree in pharmacology or a closely allied science; and 2) at least 2 years of postdoctoral training. Expertise in the study of inflammatory processes, interleukin research, and/or neurodegeneration is preferable.

The salary is negotiable, based on prior experience and training. Travel and moving expenses to the work location will be covered by the employer.

Candidates should send their curriculum vitae, 3 letters of recommendation, representative reprints, and a personal statement to: Dr. Israel Hanin, Chairman, Department of Pharmacology and Experimental Therapeutics, Loyola University Chicago, Stritch School of Medicine, 2160 South First Avenue, Maywood, Illinois 60153. Telephone: 708-216-3261; Fax: 708-216-6596. AA/EOE.
MENTORED SCIENTIST PROGRAM
University of Southern California. ASSISTANT PROFESSOR position (tenure-track) available July 1, 1997 under a Neurogenetology Institutional award from the National Institute on Aging for development of basic and clinical research studies for diseases related to aging. Must have a Ph.D. in Biochemistry, Genetics, or related field. U.S. residency status and Board eligibility in neurology, psychiatry, neuropsychiatry, or internal medicine required. Two to three years experience in basic research followed by focus on neurogenetology or geriatric psychiatry and the development of individual research program. Send curriculum vitae and three letters of recommendation to: Dr. Anthony Farese, M.D. Department of Neurology, USC School of Medicine, 1510 San Pablo Street, Suite 646, Los Angeles, CA 90033-4606 and arrange for two days of interviews. For further information: Telephone: 213-825-6993.

STAFF SCIENTIST—Will oversee the chronic animal evaluation of a bladder/bowel/erectile assist device; independently pursue research and development efforts in the development of new electrode configurations and manufacturing techniques; evaluate devices in acute and chronic animal experimentation; serve as the primary liaison to the medical community during clinical trials of the bladder/bowel/erectile device; and interact with other staff members on the development of larger scale and cost-productive manufacturing techniques for the bladder/bowel/erectile assist device. Must have two years’ experience in the research and development of new electrode configurations and manufacturing techniques; the evaluation of devices for acute and chronic animal experimentation; one year of surgical experience; and experience in patient management during clinical trials. Must also have two years’ research experience in functional neurosurgical stimulation (“FNS”) techniques, and/or the evaluation of medical electrodes. Experience can be concurrent, occurring before, during, or after degree. 40 hours per week. 8:00 a.m.—4:30 p.m. with 0.00 per year. Benefits. You must have legal authority to work indeﬁnitely in the U.S. Send two resumes and cover letters (no calls) to: ES Sp Prgrms., Ref Name 1888, the Ohio Bureau of Employment Serviccs, P.O. Box 1613 OH 43210.

LABORATORY MANAGER
The Tulane/Xavier Center for Bioenvironmental Research is an interdisciplinary research organization conducting cutting-edge research and teaching in a broad range of environmental studies. The Center, a partnership between Tulane and Xavier Universities, invites applications for the position of Laboratory Manager to manage and supervise the activities of the newly established Research/Teaching Laboratory of Environmental Biotechnology. Research will focus on the environmental assessment of contaminated sites, the development of treatments for contaminants, and the development of research and teaching facilities for undergraduate and graduate students. The laboratory manager will manage, oversee, and improve the laboratory in order to meet the needs of the research, teaching, and outreach programs. Applicants should include a description of their management experience. For more information contact: Maureen Zinsser, Director of Development, Tulane University, Department of Environmental Science, Box 843, New Orleans, LA 70112. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately to study the function of Epstein-Barr virus glycoproteins in virus entry, replication, and pathogenesis. Background in molecular biology, genetics, virology, or related fields preferred. Understanding of immunology desirable. Send curriculum vitae and names of three references to: Lindsey Hutt-Fletcher, Ph.D., School of Biological Sciences, University of Georgia, 333 North Rockwood Road, Kansas City, MO 64110. FAX: 816-235-2575; Email: hutfleth@cctr.ukmc.edu. Equal Opportunity/Affirmative Action Institution.

POSTDOCTORAL POSITIONS available in the departments of Microbiology and Immunology, Biochemistry and Molecular Biology, Pharmacology, Toxicology, and Pathobiology. Applicants must have a Ph.D. or M.D. degree. Posting applies to positions available January 1, 1996 and will remain open until positions are filled. Send applications to appropriate department heads: The University of Arizona, Tucson, AZ 85724. Equal Employment Opportunity/Affirmative Action/ADA Employer. Women and minorities are urged to apply.

POSTDOCTORAL POSITION available immediately to study the molecular mechanisms that inhibit the terminally differentiated cardiac muscle cell from re-entering the cell cycle and dividing. Studies involve regulation of the muscle transcriptional program in the adult and embryonic heart. Experience in cellular and molecular biology required. Send curriculum vitae and three letters of reference to: William Claycomb, Ph.D., Department of Biochemistry and Molecular Biology, Biomedical Center, 10101 So- dido Street, New Orleans, LA 70112. Telephone: 504-568-4737; FAX: 504-568-7649. LSU Medical Center is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION Francis I. Proctor Foundation University of California, San Francisco

POSTDOCTORAL POSITION in bacterial pathogenesis to study the molecular pathogenesis of Chlamydia trachomatis for National Institutes of Health-funded projects. Molecular genetic focus to investigate host microbial interactions including attachment and invasion of mammalian cells and role of host immune response in immunity and disease. Recent Ph.D. or M.D. graduates with productive research background in microbiology, cell biology, and/or immunology are encouraged to apply. Send curriculum vitae and names of references to: Dr. David A. Bloom, Research Foundation, University of California, San Francisco, CA 94143-0412. Equal Opportunity Employer.

The Laboratory of Biochemistry and Metabolism of the National Institute of Diabetes and Digestive and Kidney Diseases at NIH has an immediate opening for a biologist with expertise in cell culture and genetic manipulation. The applicant will work in the laboratory of Dr. William H. Scribner, developing new gene targeting methods, and analyzing the role of muscle enzyme deficiencies in the development of a model for Duchenne muscular dystrophy. The applicant should have a Ph.D. in molecular biology or a closely related field, and at least two years’ experience in cell culture and genetic manipulation. Send curriculum vitae and names of three references to: Dr. David H. Scribner, NIH, NIDDK, Room 8C95, 10 Room 9N105, 10 Center Drive, MSC 1812, Bethesda, MD 20892-1812. NIH is an Equal Opportunity Employer.

POSTDOCTORAL POSITION
NMRI Structure of DNA and RNA
A position is available in Seattle beginning autumn 1996 to study the solution structure of unusual base pairing in DNA (see J. Mol. Biol., 254, 625, 1995) and hybrid and chimeric DNA-RNA duplexes (see Biochem. Biophys. Res. Commun., 199, 1334, 1994). The applicant should have extensive experience in 2DNR spectroscopy as well as structure determination and refinement using distance restraints. Applicants with or without previous experience are encouraged to apply. Email and by sending their resume and the names and addresses of three references to: Prof. Brian R. Reid, University of Washington, Chemistry Department, Box 351700, Seattle, WA 98195-1700. Email: reid@mcri.chem.washington.edu.

POSTDOCTORAL FELLOWSHIPS
Two position available is to study DNA repair in SCID mice. The levels of double- and single-strand break repair of the total genome and single genes will be measured using assays with cells and protein extracts. Second position is to study the mechanism of DNA repair and transcription of G embryo-specific genes. Send curriculum vitae and names of three references to: Dr. Martin P. Nussenzweig, Laboratory of Molecular Genetics, Box 01, National Institute on Aging, National Institutes of Health, 4940 Eastern Avenue, Bethesda, MD 20892-4285. Dr. Nussenzweig is an Equal Opportunity Employer.

POSTDOCTORAL POSITION available immediately to study growth factor (PDGF) signal transduction in vascular cells. The role of intracellular Ca2+ and second messengers in the alteration of protein kinase cascades and gene expression will be examined using video and confocal microscopy in combination with biochemical and molecular biology techniques. Recent Ph.D. in cell biology and/or molecular biology with a strong background in protein chemistry or fluorescence microscopy is preferred. Send curriculum vitae and names of three references to: Dr. Pamela A. Dilliberto, Department of Cell Biology and Anatomy, CB Number 7090, 202 Taylor Hall, University of North Carolina, Chapel Hill, NC 27599. Email: dilib@med.unc.edu.

Ph.D. STUDENTSHIP
Objective is the development of models and software tools to analyze microbial metabolic networks for metabolic engineering. Applications are invited from candidates who have or expect to complete a Ph.D. in applied mathematics, engineering science, information sciences, or related disciplines. Experience is expected in description and analysis of dynamical systems as well as in software engineering. A contract of three years’ duration will be offered to the successful candidate. Applications including a curriculum vitae with the names and addresses of three letters of reference should be sent to: Prof. Dr. C. Wandrey Research Center Jülich GmbH Institute of Biotechnology D-52425 Juelich Germany

POSTDOCTORAL POSITION
Clinical Pharmacology/Pharmacokinetics of Antitumor Agents
The Mayo Cancer Center conducts an extensive developmental therapeutics program for the treatment of cancer. Our laboratory characterizes the pharmacology and metabolism of new agents in conjunction with NCI-sponsored adult Phase I and Phase II clinical trials, and in conjunction with Children’s Cancer Group pediatric clinical trials. The laboratory is equipped to conduct clinical pharmacology, metabolism, and mechanisms of action studies with new agents. Candidates should have a strong background in pharmacokinetics, metabolism, and/or pharmacology. Candidates with postdoctoral experience will be considered for a more advanced appointment. Applications including curriculum vitae, summary of research interests and experience, and names of three references should be forwarded to: Dr. Matthew M. Ames, Chair, Division of Developmental Oncology Research, Department of Oncology, Mayo Clinic and Foundation, Rochester, MN 55905. Mayo Foundation is an Affirmative Action/Equal Opportunity Employer and Educator.

POSTDOCTORAL POSITION
SYNTHETIC ORGANIC CHEMISTRY
One POSTDOCTORAL POSITION available in cancer research laboratory with emphasis on the design, synthesis, characterization, and evaluation of novel anti-tumor agents. Current research includes development of mechanism-based protease inhibitors and novel transplasmin targeted agents at carcinoid disease. This position funded by NCI training grant and/or NIH RO1 grant; successful applications are expected to provide support. Applications including curriculum vitae, a summary of research interests/experience, and names of three references should be forwarded to: Dr. Matthew M. Ames, Chair, Division of Developmental Oncology Research, Department of Oncology, Mayo Clinic and Foundation, Rochester, MN 55905. Mayo Foundation is an Affirmative Action/Equal Opportunity Educator and Employer.

POSTDOCTORAL POSITION available immediately to study the function of androgen response genes in apoptosis and/or cell proliferation in the prostate and the role of these genes in pathogenesis of prostate cancer and benign prostate hyperplasia. Applicants should have a Ph.D. in molecular biology, biochemistry, or a related field. Send curriculum vitae and names of three references to: Zhou Wang, Ph.D., Department of Urology, Northwestern University Medical School, Tarry 11175, 303 East Chicago Avenue, Chicago, IL 60611. FAX: 312-908-7275. Affirmative Action/Equal Opportunity Employer.
**THE J. DAVID GLADSTONE INSTITUTES**
University of California, San Francisco
San Francisco General Hospital

**POSTDOCTORAL FELLOWSHIP - DR. ROBERT PITAS**

Study the molecular basis for the impact of apolipoprotein E4 on neurite outgrowth and Alzheimer's disease. A combination of in vitro studies and studies with transgenic models will be used to examine the mechanism for the contribution of apolipoprotein E4 to Alzheimer's disease. Candidates should possess an M.D. or Ph.D. in neurobiology. Job #C96-017.

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**POSTDOCTORAL FELLOWSHIP - DR. ISRAEL CHARO**

STUDY CHEMOKINE RECEPTORS. Current projects include signal transduction pathways and G-protein coupling of receptors, receptor knockout and transgenic mouse models, and potential roles of Chemokine Receptors as co-factors in the internalization of HIV. A strong background in molecular biology is required. Job #C95-063.

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Please send CV and list of references, indicating the appropriate job number, to: The J. David Gladstone Institutes, P.O. Box 419100, San Francisco, CA 94141.

For a listing of other open positions, visit our website: http://gladstone.ucsf.edu/positions.html

Equal Opportunity/Affirmative Action Employer

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**BIOQUEST INCORPORATED**

Executive Search Consulting is conducting a search for

**Senior Director, Molecular Biology**

for a major pharmaceutical company, located in a culturally active, university city in the Midwest. The Sr. Director will be the corporation’s world wide authority in molecular biology and together with his/her group will

- initiate and stimulate drug discovery research in the company’s areas of therapeutic specialization (metabolic disorders, inflammation, cardiovascular diseases, cancer, infectious and neurodegenerative diseases);
- guide the company’s programs in molecular biology through an accelerated growth period during the next 2-3 years;
- seek and inspire collaborations with technology-focused groups within the company (especially with cell biology, biochemistry, and biomolecular structure);
- participate in on-going, external drug discovery research and help identify new opportunities in academia and industry that will enhance the company’s position in the technology of molecular biology and their application to drug discovery.

Interested candidates for this highly visible position will have a Ph.D. degree in molecular biology, biochemistry, or a related field. She will have collaborated with respected scientists and published extensively during the last 15 years, covering broad areas of molecular biology. Experience in leading a scientific group of substantial size is essential.

Please submit resume to J. Weber, BioQuest Inc., 100 Spear Street, Suite 1125, San Francisco, CA 94105, or call Bettina Griessmann during West Coast business hours at 415-777-2422.

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**Scientific Review Administrator**

Opening Date: 7/1/96
Closing Date: 7/29/96
Announcement Number: CA-96-1915
GS-601-13/14

The Grants Review Branch, Division of Extramural Activities of the National Cancer Institute (NCI), National Institutes of Health (NIH), is seeking to recruit an individual to join a multidisciplinary group of Scientific Review Administrators (formerly Executive Secretaries) engaged in managing the review of research grant applications submitted to the NCI. These activities are based in suburban Maryland, but some travel is involved. Candidates should have independent research expertise in current and emerging technologies in cell and molecular biology related to cancer, with an emphasis on molecular genetics. Candidates should be familiar with the NIH grant review and support process. Candidates must be United States citizens. The salary range for this position is $52,867 to $81,217. To obtain information on the application procedures and documents required for consideration for this position, candidates may contact the National Cancer Institute, Office of Human Resources and Consulting Branch at (301) 402-2789. To obtain a fax of this information, call 1-800-728-5627 or (301) 594-2953 and enter Fax ID# 1880. Selection for this position will be based on merit, with no discrimination for non-merit reasons such as race, color, gender, national origin, age, religion, sexual orientation, or physical or mental disability. The NCI/NIH is an equal opportunity employer.
POSITIONS OPEN

MOLECULAR NEUROBIOLOGIST

The Department of Anesthesiology, Cornell University Medical College (CUMC) is seeking an outstanding scientist (Ph.D., M.D., or M.D./Ph.D.) with experience in combining electrophysiological and molecular biology approaches to investigate the molecular mechanisms of anesthetics and as an ASSISTANT PROFESSOR. Expertise in the study of ion channel molecular structure by molecular biology techniques and electrophysiological correlation of glial interactions by patch clamp and/or neuroelectrophysiology is desired. Previous postdoctoral research experience with a strong background in molecular biology and/or neuroscience and a desire to maintain an externally funded independent research program are required. Applicants should send a curriculum vitae and three references to: Hugh C. Hemmings, Jr., M.D., Ph.D. Department of Anesthesiology The New York Hospital--Cornell Medical Center 525 East 68th Street New York, NY 10021

CUMC is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

MOLECULAR BIOLOGY OF p53

Applications are invited from persons with keen interest in understanding the molecular biology of the tumor suppressor gene p53 for an NIH postdoctoral position. Current research in the laboratory is understanding the involvement of "gain of function" mutations at the p53 gene in transcription and oncogenesis. Individuals with expertise in recombinant DNA technology and protein purification are especially encouraged to apply to complete a complete curriculum vitae and names of three references to: Sumitri Deb, Ph.D., Department of Microbiology, University of Texas Health Science Center, 7703 Floyd Curl Drive, San Antonio, TX 78284, The University of Texas Health Science Center at San Antonio is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIP

Position available for protein biochemist/molecular biologist in well-funded laboratory investigating molecular basis of intestinal tight junctions regulation, enterocyte cytoskeletal organization, and cell-cell interactions. Experience in molecular biology, signal transduction, protein purification, protein-protein interactions, or protein phosphorylation desirable. Send curriculum vitae and names of three references to: Dr. Alessio Fasano, University of Maryland, School of Medicine, Division of Pediatric Gastroenterology and Nutrition, 22 South Greene Street, Box 140, Baltimore, MD 21201-1595. Email: AFASANO@UMAB.UMD.EDU

POSTDOCTORAL RESEARCH position available immediately. NIH training grant in the Department of Surgery at Columbia University College of Physicians and Surgeons. Ongoing projects focus on mechanisms of lymphocyte recruitment in sepsis and ischemia, hypoxia induced modulation of cellular function, tumor angiogenesis and anti-angiogenesis, and Alzheimer's disease. For application information please contact: Dr. David M. Stern, Department of Physiology, Columbia University, P&S 11-518, 630 West 168th Street, New York, NY 10032. Telephone: 212-305-1615; FAX: 212-305-5337; Email: dms9@columbia.edu.

POSTDOCTORAL POSITION available immediately. NIH training grant in the Department of Surgery at Columbia University College of Physicians and Surgeons. Ongoing projects focus on mechanisms of lymphocyte recruitment in sepsis and ischemia, hypoxia induced modulation of cellular function, tumor angiogenesis and anti-angiogenesis, and Alzheimer's disease. For application information please contact: Dr. David M. Stern, Department of Physiology, Columbia University, P&S 11-518, 630 West 168th Street, New York, NY 10032. Telephone: 212-305-1615; FAX: 212-305-5337; Email: dms9@columbia.edu.

POSTDOCTORAL/RESEARCH ASSOCIATE

Applications are invited for POSTDOCTORAL and/or RESEARCH ASSOCIATE positions to conduct research on molecular genetics or biochemistry of oxidative stress in relation to the aging process. Please contact: Dr. William C. Orr (molecular genetics) or Dr. R. S. Sohal (biochemistry), Department of Biological Sciences, Southern Methodist University, Dallas, TX 75275-0376. Telephone: 214-678-7230; FAX: 214-678-3955.

POSITIONS OPEN

VETERINARY LABORATORY MICROBIOLOGY SERVICES MANAGER

A position is available as Veterinary Laboratory Microbiology Services Manager, which will serve as the Chief of Microbiology of the Bureau of Veterinary Diagnostic Laboratories, Summerdale, Pennsylvania. The laboratory is part of the Pennsylvania Animal Diagnostic Laboratory System (PADLS) with laboratories at the Pennsylvania State University and the University of Pennsylvania School of Veterinary Medicine. The position is responsible for the function and operation of the Microbiology and for the Immunology areas of the laboratory. The diagnostic laboratory performs procedures in pathobiology, histology, toxicology, microbiology and immunoserology on mammalian, avian, and aquatic species. A new laboratory is under construction; substantial equipment including development of a new computer system has been acquired in the past several years and provisional AAVLD accreditation is underway. Research and educational activities are encouraged and there is collaborative activity with the university laboratories. Training opportunities and professional self development is encouraged and supported. A Ph.D. in microbiology and three years as a microbiologist in a full-service veterinary diagnostic laboratory is required. Postdoctoral/research experience desirable.

The Commonwealth of Pennsylvania offers a full benefit program including paid life and medical insurance; dental, vision, hearing, and paid prescription plan; and an excellent retirement plan. A bonus program is also offered for this position. Salary range is $40,000 to $70,000.

This is a civil service position; a job announcement and required application materials must be obtained by contacting: Ms. Beth Williamson, Pennsylvania Department of Agriculture, 2301 North Cameron Street, Harrisburg, PA 17110. Telephone: 717-978-1065. Completed application and supplement must be filed at this address by September 27, 1996. Resumes alone will not be accepted.

UNIVERSITY SCIENTIST

The Department of Otolaryngology at Wayne State University invites applications for an academic appointment of a qualified ANATOMIST to complement departmental strengths in the molecular biology, biochemistry, and physiology of the inner ear. Qualifications for the position include a Ph.D. and postdoctoral fellowship with expertise in anatomical techniques including autoradiography, immunohistochemistry, and immunocytochemistry. Candidates finishing postdoctoral fellowships in established laboratories will receive preference. The responsibilities will include establishing an independent laboratory, moderate teaching responsibilities, and departmental committee work. The department offers startup funds for developing an inner ear anatomy laboratory. Academic appointment and compensation will be related to training and experience. Letter of inquiry, research plans, and curriculum vitae should be sent to: Robert H. Mathog, M.D., Professor and Chairman, Department of Otolaryngology, Wayne State University, 4201 St. Antoine, Detroit, MI 48201. Wayne State University is an Equal Opportunity/Affirmative Action Employer.

All Wayne State University buildings, structures, and vehicles are smoke-free. Wayne State University—People working together to provide quality.

POSTDOCTORAL POSITIONS

in cellular/molecular immunology for work on regulation of Fas-mediated apoptosis/autoimmunity and mechanisms of receptor-transcription factor coupling. Experience in immunohistology, molecular biology, or signal transduction preferred. Send curriculum vitae, statement of research interests, and three references to: Dr. Torsten Brunk, Department of Immunology, The Ohio State University, Columbus, OH 43210. Deadline: June 15, 1996.

POSTDOCTORAL POSITION

in intracellular calcium signaling and related processes. Experience in lessoning and/or manipulation of calcium signaling processes is required. The position will be responsible for the initiation and direction of an independent research program. The appointment is for two years. The successful candidate will have the opportunity to pursue independent research interests, receive training, and participate in a stimulating research environment. Send a curriculum vitae and the names and addresses of three references to: Dr. Thomas Hsu, Department of Molecular Biology, The Scripps Research Institute, 10550 N. Torrey Pines Road, La Jolla, CA 92037.

Your organization’s logo will appear on this site for a period of two months and will be linked to a listing of your job opportunities or your home page.

For more information: Department of Biology, University of Missouri, Columbia, MO 65212. Deadline: July 31, 1996.

Equal Opportunity/Affirmative Action Employer.

http://sci.aaas.org/nextwave

7 June
Corporations & Science Funding

12 July
Bioinformatics Careers

2 AUGUST
Postdoctoral Scientists

4 October
Science in Asia

8 NOVEMBER
Career Decisions: M.S. or Ph.D.?

6 December
Postdoctoral Scientists as Patent Attorneys

6 August

6 September

6 October

6 November

6 December

http://sci.aaas.org/nextwave

7 June

12 July

2 August

4 October

8 November

6 December

Your organization’s logo will appear on this site for a period of two months and will be linked to a listing of your job opportunities or your home page.

For more information contact: Janis Crowley
Phone: (202) 326-6532;
Fax: (202) 682-0816

next wave

http://sci.aaas.org/nextwave
INFLAMMATION PHARMACOLOGY

SmithKline Beecham Pharmaceuticals, a world leader in pharmaceutical research, has an opportunity for an Investigator to join the Department of Inflammation Pharmacology.

The selected candidate will participate in the drug discovery process for immunologically driven inflammatory diseases and identify new molecular targets for immunological diseases. Acting as a departmental resource in the field of Cellular and Molecular Immunology, the Investigator will also be required to establish new model systems/assays to facilitate research efforts, present findings at scientific meetings and publish in scientific journals.

Qualifications include a PhD (or equivalent) in Immunology, Molecular Biology or Cell Biology, and 2+ years of post-doctoral experience in immunology, immunopharmacology or related field. Candidates must also demonstrate expertise with state-of-the-art cellular and molecular immunology methodologies, as well as knowledge of T and B lymphocyte biology and cell-mediated immunity. The ability to take a creative approach to independent projects is equally essential.

Located in our technologically advanced research facility in suburban Philadelphia, SmithKline Beecham offers an excellent compensation/benefits/relocation package. Interested candidates should send CV and salary requirements to:

SmithKline Beecham Pharmaceuticals, Job Code HS-0498-DG, P.O. Box 2845, Bala Cynwyd, PA 19004. We are an Equal Opportunity Employer, M/F/D/V.

SB
SmithKline Beecham Pharmaceuticals
Challenging the natural limits.

Dedicated to Science.  Focused on Discovery.

At the Parke-Davis Pharmaceutical Research Division of Warner-Lambert Company, inspired science and a strategy of innovation has made us an international leader in the pharmaceutical industry. Our team members are encouraged to pursue discovery together—and explore all the possibilities of scientific problem solving.

POSTDOCTORAL FELLOWSHIP
CANCER RESEARCH

Currently, we have an immediate opening for a Postdoctoral Fellow to investigate the role of cell cycle elements in tumorigenesis and to explore the therapeutic consequences of intervention or modulation at strategic sites along the cell cycle pathway.

The candidate will join a preclinical cancer research group involved in a multidisciplinary effort to study oncogenic proteins involved in mitogenic signal transduction and cell cycle progression as potential targets in cancer therapy.

Candidates should be recent PhD graduates in biochemistry, cell biology or a related discipline with experience in tissue culture, protein biochemistry or enzymology. Some familiarity with the areas of cancer biology and the cell cycle would be beneficial.

Members of our world-class pharmaceutical team enjoy world-class salaries, benefits and career growth potential.

For consideration, please send, fax or e-mail a resume to:

Parke-Davis, Human Resources Department, Job Code: CJOH9533146, 2800 Plymouth Road, Ann Arbor, MI 48105. Fax: 313-996-2531; e-mail: resume@aa.wl.com.

"Equal Opportunity in Action."

The Untapped Power of DISCOVERY

Established in 1993, SCRIPTGEN has become a leading molecular therapeutics company by developing unique drug discovery technologies that represent breakthrough advances in the race to develop effective therapies. Our proprietary, affinity-based screening system, ATLAS (Any Target Ligand Affinity Screen) allows novel protein targets to be screened in a high throughput mode, and our SCAN (Screen for Compounds with an Affinity for Nucleic Acid) and RNA transcripts technologies are facilitating the discovery of important drugs that regulate RNA.

The success of these technologies, coupled with our advances in the therapeutic modulation of microbial gene transcription, has created new opportunities in our research organization. We are seeking the skills and expertise of highly motivated, team-oriented scientists who are ready to bring their innovative ideas to the brink of discovery.

PhD Biochemist
- Candidate must have strong practical and theoretical background in the characterization of protein function and protein-ligand interactions including at least 2 years' post-doctoral laboratory experience. Drug discovery/development and enzymology experience preferred. Experience with cell culture assays desirable. Job Code AFF5

MS/BS Biochemists
- Candidates must have a degree in Biochemistry, Molecular Biology or related discipline and the ability to work independently and as part of a team. Will play a major role in our high-throughput screening group. Two or more years' laboratory experience with enzymatic assays, enzyme kinetics, protein purification and characterization as well as the ability to direct others essential. Candidates with experience in nucleic acid and/or high-throughput drug screening techniques preferred. Job Code FGL4

MS/BS Molecular Geneticists
- Individuals will play a major role in our antibacterial drug discovery team. Candidates must have a degree in Biochemistry, Molecular Biology, Genetics, Microbiology or related discipline. Two plus years' laboratory experience with either recombinant DNA techniques (including DNA sequencing, nucleic acid hybridization screening, library preparation and analysis) or protein expression, purification and characterization is required. Job Code BAC3

BS Biochemists
- Candidates should have an understanding of biochemical methods/principles and must have experience with basic biochemical techniques. Job Code AFF7

MS/BS Biochemist
High-Throughput Screening
- Candidates must have a degree in Biochemistry, Molecular Biology or related discipline and the ability to work independently as part of a team. Will play a major role in our high-throughput screening group. Two or more years' laboratory experience with enzymatic assays, enzyme kinetics, protein purification and characterization as well as the ability to direct others essential. Candidates with experience in nucleic acid and/or high-throughput drug screening techniques preferred. Job Code FGL5

Cephalon, Inc., a rapidly expanding biotechnology firm specializing in discovering, developing, and marketing products to treat neurological disorders, has positions available at its headquarters in West Chester, PA.

**PROCESS DEVELOPMENT SCIENTIST**

Applicants should have B.S., M.S., or Ph.D. in Biochemical Engineering, Microbiology or related discipline, with demonstrated experience in fermentation/cell culture development, optimization, and scale-up for recombinant protein expression. Knowledge of Molecular Biology techniques is helpful. Experience in the areas of process validation and GMP regulations is desirable. Good documentation and computer skills are also very important. Job Code RAB.

**BUSINESS DEVELOPMENT MANAGER**

This is a key position responsible for facilitating ongoing company business development initiatives. The major goal is to identify, establish and maintain relationships with academia, government and industry in order to license technology valuable to Cephalon's research activities. The candidate will have the ability to prioritize and implement projects; negotiate and maintain license agreements; establish and manage a network of contacts to assure a flow of technologies; and perform business assessments including market research and financial analysis. The position requires strong communication, negotiation, analytical and computer skills. This presents an excellent opportunity for a scientist or clinician who is ready to move to a business role in pharmaceutical development. An advanced degree (e.g., Ph.D., preferably in the neurosciences) and an MBA would make you an ideal candidate for the position. Relevant work experience in the pharmaceutical industry is a plus. Job Code BD.

Cephalon is committed to your professional development and offers a stimulating and exciting work environment. Please send resumes, indicating Job Code to:

Recruitment Manager, Cephalon, Inc.,
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**Program Scientists**

**Science Division**

**Office of Mission to Planet Earth**

**Headquarters**

**NATIONAL AERONAUTICS AND SPACE ADMINISTRATION (NASA)**

NASA Headquarters’ Office of Mission to Planet Earth (MTPE) seeks qualified applicants for the positions of Program Scientists for Terrestrial Ecology, Hydrology, and Oceanography in the Science Division.

These positions are to be filled on a 1- or 2-year rotating basis under the provisions of the Intergovernmental Personnel Act (IPA). IPA applicants must be permanent, career employees of an IPA-eligible employer for at least 90 days prior to entering into a mobility assignment agreement with a federal agency. Reimbursement of salary, benefits, and other related expenses are negotiated between NASA Headquarters and the individual's institution.

Primary responsibilities include program planning, priority formulation, proposal evaluation, recommendation and monitoring of research grants and projects, and coordination with other federal and non-federal programs. The MTPE program requires extensive interdisciplinary interactions.

Applicants must have a Ph.D. or equivalent experience in the respective disciplinary science or related fields; five or more years of successful research, research administration, and/or managerial experience pertinent to the respective positions beyond the Ph.D.; a broad understanding of the current status of the respective disciplinary research at the national and international level as well as the role of remote sensing in the continuing advancement of research.

Interested applicants must submit a curriculum vitae and a list of three references to NASA Headquarters, Office of Mission to Planet Earth, Attn: Jackie A. Gasch, Code YS, 300 E Street, NW, Washington, DC 20546-0001. Review of applications begins on August 30, 1996.

For further administrative information, call Jackie A. Gasch: 202/358-0844. For technical information, call Dr. Robert C. Harris, Director, Science Division: 202/358-2559.

NASA is an equal opportunity employer committed to employing a highly qualified staff that reflects the diversity of our nation.

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**Lab Director**

**Immunology/Pre-Clinical Studies**

Genetic Therapy, Inc. is a leader in the development of human gene therapy products for genetic and acquired diseases. Located in the Washington, D.C. area, GTI and its collaborators represents one of the largest groups of scientists dedicated to research and development in the field.

We are seeking a Lab Director to manage our Immunology/Preclinical Studies Lab. Our lab is currently involved in many cancer gene therapy trials and we will be expanding our program. Individual will manage 30 employees.

Must have a Ph.D. in a scientific discipline and 8 years of related experience or equivalent, plus 3 years of management experience. Research experience in immunology, molecular biology, animal modeling and pharm-tox knowledge required. Experience in the gene therapy field a must. Should have strong project management, budgeting and planning skills.

We offer a stimulating and challenging environment with an excellent salary and benefits package. Please specify position when applying. Fax or send resume to:

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938 Clopper Road
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Neurex Corporation, a rapidly growing biopharmaceutical company in the San Francisco Bay Area, is currently conducting projects aimed at discovering drugs to treat a variety of neurological disorders. Molecular targets include ion channels, proteins of the cellular secretory pathways, and factors regulating cell survival and apoptosis.

**MOLECULAR NEUROBIOLOGIST**

We need a highly motivated and talented Scientist with a broad background in molecular neuroscience to join our multidisciplinary team. The successful candidate will possess a Ph.D in Molecular Physiology or Pharmacology, or Neurobiology and a minimum of 2 years' relevant post-doctoral experience. Preference will be given to candidates with experience expressing and electrophysiologically characterizing cloned ion channels. Please quote JOB CODE: GM-1.

**RESEARCH ASSOCIATE**

We seek a highly motivated Research Associate to perform pharmacological assays. The successful candidate will possess a BS/MS in science and 2 years' relevant experience in an industrial or academic lab. Please quote JOB CODE: GM-2.

Neurex offers a competitive salary, comprehensive group insurance and benefits program, and stock options. For consideration, send your resume and references, indicating job code of interest, to: Human Resources, Neurex Corporation, 3760 Haven Avenue, Menlo Park, CA 94025-1012. We are an equal opportunity employer.

**NEUREX**
New Lectureships

Lectureship in Molecular Pharmacology (Ref no. 336/96)

These posts will continue to develop our strength in molecular and cellular biology. Applicants should have a proven track record of excellence in their field. For the Lectureship in Molecular Pharmacology, applicants should have a background in pharmacology and should preferably possess previous experience in molecular and cellular biology. The Lectureship in Molecular Pharmacology is particularly suited to candidates who wish to integrate aspects of their work with those interested in physiology, pharmacology and whole animal biology.

The School of Biological Sciences at the University of Manchester is large, offers excellent opportunities for collaboration, is well equipped and includes excellent core facilities for biomolecular synthesis, electron microscopy, NMR, flow cytometry and transgenesis.

Both positions are for a fixed term of five years with a minimal teaching load during the first two years. Salary on the scale: £15,154 - £26,430 p.a. (under review) according to qualifications and experience.

Informal enquiries may be made to Professor J Hickman, Tel: (0161) 275 5448; Fax: (0161) 275 5600; e-mail: jhickman@man.ac.uk. or Professor A Weston, Tel: (0161) 275 5490; Fax: (0161) 275 5600; e-mail: aweston@man.ac.uk.

Lectureship in Integrative Animal Biology (Ref. no. 337/96)

Applications are invited for this fixed term (5 year) Lectureship from animal biologists especially those with interests in fields including environmental and comparative physiology, animal behaviour, neuroscience/genetics, reproductive biology/development and comparative immunology, or any other area of Integrative Animal Biology. A key criterion will be that the individual’s research includes genetic and/or molecular technologies underpinning questions at the whole organism level. Teaching responsibilities will include undergraduate animal biology courses and participation in an expanding postgraduate teaching programme at M.Res and MSc level.

Initial salary according to qualifications and experience within the range £15,154 - £26,430 p.a. (under review).

Informal enquiries may be made to Professor A Loudon, Tel: (0161) 275 3886; Fax: (0161) 275 3938; e-mail: andrew.loudon@man.ac.uk. Further particulars and an application form are available from The Office of the Director of Personnel, The University of Manchester, Oxford Road, Manchester M13 9PL. Tel: (0161) 275 2028; Fax: (0161) 275 2221; Minicom: (0161) 275 7889. Please quote appropriate ref no. Closing date for receipt of applications is 19 June 1996.

As an equal opportunities employer, the University of Manchester welcomes applications from suitably qualified people from all sections of the community regardless of race, religion, gender or disability.

Epidemiologist
(Virology)
World Health Organization
Geneva, Switzerland

The National Center for Infectious Diseases (NCID), Centers for Disease Control and Prevention (CDC), is seeking qualified applicants for a Virologist position (GS-601-15) for assignment to the World Health Organization (WHO). The incumbent will serve as a principal scientific and technical advisor to the Director, NCID, and will work under the Director, Division of Emerging and Other Communicable Diseases Surveillance and Control, WHO. Responsibilities will include the development and implementation of global surveillance, investigational, and prevention and control activities related to emerging and re-emerging viral diseases, including arbovirus diseases and viral hemorrhagic fevers.

Qualifications require significant experience in viral diseases and the ability to plan, implement, and manage infectious disease programs. Doctoral degree preferred.

Salary range, GS-15, is $69,300 to $90,090. Additional benefits include quarters/housing allowance, educational expenses, and cost-of-living allowance.

Interested candidates may send their curriculum vitae in confidence along with the names of three professional references postmarked no later than 7/30/96, to Janie L. Oddy, Human Resources Management Office, Centers for Disease Control and Prevention (K15), 4770 Buford Highway, Atlanta, GA 30341-3724. EOE.
ACADEMIC COORDINATOR to manage, oversee, and participate in the laboratory operations of upper division courses in the Department of Biology, including: 153L (laboratory for cellular physiology; functional histology); 158 (cell biology); 162 (plant physiology); 166 (animal physiology); and 167 (regulatory physiology). Depending upon qualifications, the successful candidate will have the opportunity to participate in appropriate lecture series in courses taught by regular members of the faculty. The primary responsibilities for laboratory operations in each course will include: participation in selection and development of laboratory exercises and computer-assisted learning; supervision and technical training of graduate student teaching assistants; coordinating and overseeing admission and registration of students in laboratory sections; participation in the development and administration of laboratory examinations; selection and maintenance of laboratory equipment; and oversight of the maintenance and use of living organisms in teaching exercises.

Qualifications include a Ph.D. degree or equivalent in an appropriate field of biology; appropriate training and experience in experimental laboratory biology; experience in teaching at a university level; and experience in working with computers in scientific laboratory settings. Level of appointment and salary commensurate with qualifications and experience. The appointment is for one academic year. Reappointment beyond that date may be possible.

Applications should include current c.v., including lists of publications; written statements of teaching and research interests and backgrounds; and names, addresses, and telephone numbers of three references. Position is currently available and will be filled as soon as possible. Address applications to Academic Coordinator Search Committee, c/o Professor Robert Wayne, Department of Biology, University of California, Los Angeles, CA 90095-1606 by September 2, 1996.

UCLA is an affirmative action/equal opportunity employer. Women, minorities, and persons with disabilities are encouraged to apply.

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POSTDOCTORAL POSITIONS

The Institute of Molecular Medicine and Genetics (IMMAG) has several postdoctoral positions available. The Institute offers a highly interactive and supportive scientific environment, with state-of-the-art equipment and a new building. There are excellent facilities for development of transgenic and knockout mice. To apply for one of these positions, please send your curriculum vitae and names of three references to the faculty member referenced below at IMMAG, CB-2803, Medical College of Georgia, 1120 15th St., Augusta, GA 30912.

Postdoctoral positions (2) are available August 1, 1996 to study the signal transduction pathways leading to modulation of activities of specific transcription factors that are involved in differentiation, growth, and apoptosis in mammalian cells. Background in molecular biology/biochemistry and interest in establishing mouse models (transgenic and knockouts) is preferred. Contact: Dr. Nahid Mivechi.

Postdoctoral positions (2) are available immediately to study the molecular biology of DNA-dependent protein kinase and its role in repair, recombination, stress, and autoimmunity. (McConnell and Dynan, Current Opinion in Cell Biology, 8:325-330, 1996). Candidate should have a background in protein chemistry, molecular biology, and/or establishment of mouse models. Contact: Dr. William S. Dynan.

Postdoctoral position available immediately to study p53-dependent apoptosis and cell cycle regulation. Candidate should have a background in biochemistry and molecular and cellular biology. Contact: Dr. Xinbin Chen.

Postdoctoral position available immediately to study the biochemistry and molecular biology of the RAG proteins in their essential role in the DNA recombination of the immune system (V(D)J recombination). The connection to DNA repair, general DNA recombination, and immune system development are continuing interests (see Sadofsky et al., Genes and Development, 9:2193-2199, 1995; van Gent et al., Cell 81:925-934, 1995). Contact: Dr. Moshe Sadofsky.

MCG is an EEO/AAE.

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POSTDOCTORAL/PROFESSIONAL RESEARCH POSITIONS

DEPARTMENT OF PHARMACOLOGY
UNIVERSITY OF CALIFORNIA, IRVINE

Several postgraduate and professional researcher positions are or will be available in individual laboratories in the department for candidates who have demonstrated research promise at the postdoctoral level. The emphasis of research in the department is in the areas of neuropharmacology, cellular and molecular pharmacology, and cardiovascular pharmacology. The faculty of the department and their research interests are:

Dr. Olivier Civelli  G protein-coupled receptors and their ligands
Dr. Sue Duckles  Vascular function: Age and gender
Dr. Fred Ehleret  Muscarinic receptors and their signaling mechanisms
Dr. Kelvin Gee  Characterization of novel modulatory sites on GABA_A receptor complex
Dr. Frances Leslie  Drugs of abuse and cellular plasticity
Dr. Ralph Purdy  Vascular second messengers; vasoconstrictor synergism
Dr. Larry Stein  Cellular basis of reward, learning and memory; behavioral pharmacology; drug discovery
Dr. Eckard Weber  Novel NMDA antagonists; stroke therapy drugs

Applications, including your letter of interest, CV, and the names and addresses of three references, should be sent to: Dr. Larry Stein, Professor and Chair, Department of Pharmacology, University of California, Irvine, 360 Med Surge II, Zot Code 4625, Irvine, CA 92697-4625. UCI is an Affirmative Action/Equal Opportunity Employer.

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ANNOUNCEMENT

1996-'97 AAAS Award for Public Understanding of Science and Technology

Nominations Invited

• An annual Award for working scientists and engineers from all disciplines who make outstanding contributions to public understanding of science and technology but are not members of the media.
• Contributions should have a significant impact on the public; be accurate, timely, and innovative; and convey the meaning, excitement, and significance of scientific activity.
• The Award will be presented during the AAAS Annual Meeting in Seattle, WA, February 13-18, 1997.
• The Award carries a $5,000 prize.

1995 Award Winner: Carl Sagan

For additional information, contact: Amie King, Project Director, American Association for the Advancement of Science, 1200 New York Avenue, NW, Washington, DC 20005, telephone (202) 326-6667, or fax (202) 371-9849.
Deadline for nominations is August 1, 1996.
POSTDOCTORAL POSITION for NIH-funded project to study outer membrane proteins of pathogenic Leptospira species. A variety of novel molecular and biophysical approaches are being utilized to identify transmembrane and lipoprotein components of the leptosporial outer membrane. In addition to characterization of their structure, function, and assembly, this study involves testing the ability of these molecules to serve as protective immuno- nogens. Interested candidates should send curriculum vitae and names of three references to: David A. Haake, M.D., Division of Infection Control, West Los Angeles VA Medical Center, Los Angeles, CA 90073. FAX: 310-391-1966; Email: haake.david@west.va.gov.


RESEARCH GRANTS

The American Health Assistance Foundation invites applications from researchers at nonprofit institutions for the following programs:

Alzheimer’s Disease Research: grant awards of up to $100,000 per year for up to two years (renewable) for research into the cause(s) of Alzheimer’s disease. Application deadline: October 15, 1996.

Glucoma Research: grant awards of up to $55,000 per year for up to two years (renewable) for research into the causes and treatment of glaucoma. Application deadline: November 30, 1996.

National Heart Foundation Grants: starter grants of up to $10,000 for one year (renewable) for research into the cause and treatment of stroke or cardiovascular disease. To qualify for a starter grant, the investigator must be an assistant professor (or equivalent) beginning an independent research career. Application deadline: October 31, 1996.

For information and application forms contact: Research Grants Department, American Health Assistance Foundation, 15825 Shady Grove Road, Suite 140, Rockville, MD 20850. Telephone: 301-948-3244.

MEETING

Continued from page 145

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