particular risks to gain critical information about cleaning up contaminated sites. The software supplies authoritative information on hazard, exposure, and risk. Thistle Publishing. Circle 143.

Graphing and Data Analysis Software
GraphPad Prism Version 2 is a Windows-based scientific graphing and data analysis program. The new version adds biostatistical analyses such as t tests, nonparametric tests, and analyses of contingency tables, making the program a complete biostatistics, curve-fitting, and publication-quality graphing package. GraphPad. Circle 144.

Gel Documentation System
The Imager makes use of a low-noise charge-coupled device camera and custom video processor to quickly capture data from such samples as stained gels, immunoblots, and thin-layer chromatography plates onto high-density floppy disks in seconds. Images can be saved into more than 50 different file formats for flexible archiving and transport into other graphics or image analysis programs. Improved sensitivity is achieved by increasing exposure time and electronically reducing the background of the live image, which is not possible with standard photographic systems. Oncor. Circle 145.

Literature
Pall Biosupport Membranes for Molecular Biology Applications is a 12-page brochure that includes an applications guide to assist researchers in selecting the appropriate membrane for a specific application. Applications include immunoblotting, DNA, RNA, and protein immobilization; forensic testing; and genetic fingerprinting. Pall Corp. Circle 146.

reSolution Magazine illustrates the innovative applications of Leica products. Leica. Circle 147.

SolventTrak: The Chromatography Solvent Recycler for Purists describes a unit that reliably recycles pure solvent back to the mobile phase reservoir, significantly reducing expenses for costly solvents and disposal. JM Science. Circle 148.

Micropure-EZ Enzyme Removers is a technical data sheet on a membrane device that in a single 30-s spin can remove restriction and other enzymes from reaction mixtures containing double-stranded DNA. Amicon. Circle 149.

Axiophot 2 Photomicroscope and Axioplan 2 Universal Microscope are brochures on two instruments available in any configuration: from the classical, manual universal microscope to the fully motorized robotic microscope. Carl Zeiss. Circle 150.

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- Hybridization at low salt to DNA & RNA
- Higher affinity and specificity
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PNA or ‘Peptide Nucleic Acid’ is a new class of informational molecule that has a neutral ‘peptide like’ backbone with nucleobases that allow the molecule to hybridize to complementary RNA or DNA with higher affinity and specificity than corresponding oligonucleotides. The unique properties of PNA allow novel molecular biology and biochemistry applications that are unachievable with traditional oligonucleotides and peptides.

PerSeptive Biosystems

PCR process patents owned by Hoffman-LaRoche Inc. and Hoffman-LaRoche, Ltd.

Circle No. 24 on Readers’ Service Card

1004

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The new LEICA DM RM/E microscope for applications in industry is a complete innovation in modern microscopy. With its new infinity optics it is prepared for all incident light contrast techniques.

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Circle No. 36 on Readers’ Service Card
A tenure-track position at the rank of ASSISTANT/ASSOCIATE PROFESSOR is expected to become available in October 1996 for an individual to teach and conduct research in industrial hygiene or related disciplines. The candidate should have a Ph.D./M.D. degree, (CHY-protected) in the application of modern analytical methods to environmental and exposure assessment. Qualified candidates should send curriculum vitae and a concise statement of teaching and research interests to: Deepak K. Bhalla, Ph.D., Chair, Search Committee, Department of Occupational and Environmental Health Sciences, Wayne State University, 628 Shapero Hall, Detroit, MI 48202. Wayne State University is an Equal Opportunity/Affirmative Action Employer. Wayne State University—People working together to provide courses, structures and vehicles at Wayne State University are smoke-free.

MOLECULAR EVOLUTION

The Department of Biology at Pomona College seeks applications for a tenure-track ASSISTANT PROFESSORSHIP in molecular evolution, beginning fall 1996. Applicants should have demonstrated broad training in biology, and have both teaching and postdoctoral experience. We seek a new colleague who will teach Genetics in our curriculum in which there is an upper-level course in Molecular Evolution. The successful candidate will be expected to establish an active research program that involves undergraduates; start-up funds are available. The appointee will demonstrate a commitment to teaching an ethnically diverse student body in a liberal arts setting. Send curriculum vitae, statement of research plans, description of teaching philosophy and interests, and three letters of recommendation to: Molecular Evolution Search Committee, Department of Biology, Pomona College, Claremont, CA 91711. Telephone: 909-607-2950; FAX: 909-621-8878. Applications must be received by March 8, 1996 to ensure full consideration. We particularly encourage applications from women and members of underrepresented groups.

POLYMER SCIENCE AND ENGINEERING
University of Massachusetts at Amherst

The University of Massachusetts at Amherst invites applications for two tenure-track faculty positions in the Department of Polymer Science and Engineering. It is expected that both appointments will be at the ASSISTANT PROFESSOR level and will begin in January 1997. Applicants in all areas of polymer science and engineering will be considered. The University has strong and active departments in biomaterials, polymer engineering, environmental biology, polymer toxicology, marine science, developmental biology and cell biology. It has close ties with other related departments in the campus as well as Academic Sinica and other well-known research institutes. It has an M.S. program with 30 graduate students now and will have a Ph.D. program this summer. Applicants should submit curriculum vitae and the names of three references by May 20, 1996 to: Dr. Tsu-yi Chai, Search Committee, College of Food Science, National Taiwan Ocean University, Keelung, 20224 Taiwan. Telephone: 886-2-4622192 x5006; FAX: 886-2-4629125.

PROFESSOR AND DIRECTOR
Institute of Marine Biotechnology
National Taiwan Ocean University
College of Fishery Science

Applications are invited for the position of PROFESSOR and DIRECTOR, Institute of Marine Biotechnology, National Taiwan Ocean University. The position is available immediately. The Institute is located at Keelung in the north of the island. It has nine faculty members and three affiliated faculty members who are active in molecular biology, biotechnology, and related fields. It collaborates with other related departments in the campus as well as Academic Sinica and other well-known research institutes. It has an M.S. program with 30 graduate students now and will have a Ph.D. program this summer. Applicants should submit curriculum vitae and three letters of recommendation to the address following: Dr. Gerhard van den Berg, Professor and Director, Institute of Marine Biotechnology, National Taiwan Ocean University, Taipei, Taiwan. Telephone: 886-2-9133211, ext. 2029; FAX: 886-2-9133235.
**BE PART OF THE NEW VA DIRECTOR MEDICAL RESEARCH SERVICE**

The Department of Veterans Affairs (VA) invites applications for the position of Director, Medical Research Service. Currently, the Medical Research Service manages an appropriated budget of approximately $200 million and supports the biomedical research of more than 2,000 VA scientists, more than 70% of whom are physicians. In addition, VA scientists receive more than $275 million in research support from extra-VA sources, such as the National Institutes of Health.

VA’s research program is strongly committed to support of patient-oriented research across the entire spectrum from basic science to clinical applications of knowledge. The incumbent is responsible for policy development, and the management and peer review of all investigator-initiated medical research studies. He/she will have overall responsibility for the managerial and scientific aspects of the medical research programs of VA. The individual selected will play a critical role in the organizational restructuring of this program.

Applicants must be U.S. citizens, have both strong scientific and managerial backgrounds, and be a physician or dentist or hold a Ph.D. Salary is $79,684-$98,960 for non-clinicians, $127,514-$164,718 for physicians, and $106,014-$110,014 for dentists.

If qualified, please send your curriculum vitae to:

**Department of Veterans Affairs**
**Management Support Office (163B)**
810 Vermont Avenue, NW
Washington, DC 20420

Applications must be received no later than March 29, 1996.

The Department of Veterans Affairs is an Equal Opportunity Employer.

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**FACULTY AND POSTDOCTORAL POSITIONS DEPARTMENT OF PHYSIOLOGY AND BIOPHYSICS UNIVERSITY OF MISSISSIPPI MEDICAL CENTER**

Applications are invited for postdoctoral positions and for tenure-track faculty appointments at the rank of assistant, associate or full professor. Faculty applicants must have a Ph.D. and/or M.D. and postdoctoral training and must be permanent residents or citizens of the United States. We are seeking individuals with expertise in molecular and/or cellular physiology with research interests that complement existing areas of excellence in cardiovascular and/or renal physiology. Special consideration will be given to candidates with research interests in the areas of regulation of extracellular matrix, angiogenesis, or hypertrophy of vascular or cardiac muscle. Successful faculty applicants are expected to establish a nationally recognized research program supported by extramural funding and contribute to the teaching of graduate and medical students. The department has a large nucleus of faculty in the areas of cardiovascular and renal physiology and offers excellent opportunities for collaboration in several areas of physiology and pathophysiology, including hypertension, heart failure, diabetes, and atherosclerosis.

Applicants should send a curriculum vitae, a statement of research interests and career goals, and the names of at least three references to:

**Dr. John E. Hall**
Department of Physiology and Biophysics
University of Mississippi Medical Center
Jackson, MS 39216-4363

Equal Opportunity Employer, M/F/D/V.

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**Cellular Electrophysiologist**

The Membrane Biochemistry and Biophysics department at Merck Research Laboratories in Rahway, New Jersey has a career opportunity for a cellular electrophysiologist. The successful candidate will conduct in vitro experiments on invertebrate ion channels as part of a research team developing new drugs for animal health.

The position requires a BS, MS or equivalent in Physiology, Pharmacology or related field. Familiarity with a variety of voltage clamp techniques and associated methods of on-line data acquisition is required. Familiarity with tissue culture techniques and methods for preparing primary cultures of nerve and muscle cells is desirable. A strong background in quantitative analysis of experimental data, especially in membrane biophysics, is also desirable.

Merck offers a competitive salary, an excellent benefits package, opportunities for professional growth and pleasant working conditions. Qualified applicants should send their resumes to: Manager, Human Resources, Ad#75, Merck Research Laboratories, P.O. Box 2000, R190-43, Rahway, NJ 07065. EEO/AA/VH/Employer.

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**Faculty of Pharmacy University of Toronto**

Applications are invited for a full-time tenure track faculty position in pharmacodynamics. The Faculty is interested in recruiting candidates whose background and current research concerns the physical chemistry of one of the following areas: the interactions, stability, delivery or targeting of biopharmaceuticals (e.g., peptides, proteins, DNA); interfacial sciences; or self-assembly. The rank of the position will be commensurate with experience. The successful candidate must establish an independent, externally funded research program, participate in the supervision of graduate students and have a strong commitment to teaching undergraduate and graduate students.

The University of Toronto and its affiliated institutions maintain a strong presence in physical, biological and medical sciences. Interdepartmental collaboration is encouraged, and such initiatives are strongly supported at the graduate level through cross-appointments, joint courses and multidisciplinary programmes.

The successful candidate must have a Ph.D. degree and relevant postgraduate research experience. Review of applications will begin May 1, 1996. To apply, send a current curriculum vitae, an outline of future research interests, and arrange to have three letters of reference sent to Dr. Donald Perrier, Dean, Faculty of Pharmacy, University of Toronto, 19 Russell Street, Toronto, Ontario M5S 2S2 Canada.

In accordance with its Employment Equity Policy, the University of Toronto encourages applications from qualified women and men, members of visible minorities, aboriginal peoples and persons with disabilities.
EYE AND VISION RESEARCH
University of Washington
Seattle

Applications are invited for a FACULTY appointment in eye and vision research to join a team of established investigators with primary interests in retinal morphogenesis, visual system development, and disease. Preference will be given to candidates with expertise in molecular and/or cell biology who have demonstrated research potential and a record of extramural funding. Candidates should possess a Ph.D. and/or M.D. and interest in eye diseases, ability and interest in teaching, and desire to collaborate with both basic scientists and clinicians. The appoint- ment will be at the faculty rank of professor, associate professor, or assistant professor, commensurate with qualifications.

Submissions are invited, including research funding; three references; and a description of research interests, accomplishments, and teaching experience to the search committee chair: Dr. P. Mills, M.D., University of Washington School of Medicine, Department of Ophthalmology, Box 356485, Seattle, WA 98195-6485.

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

HEAD
DEPARTMENT OF BIOCHEMISTRY

The College of Agriculture and Life Sciences and the College of Veterinary Medicine, North Carolina State University (NCSU), are searching for an outstanding individual to administer the teaching and research programs of the Department of Biochemistry. Applicants should possess an established reputation in biochemistry, a Ph.D. degree, and research and teaching experience commensurate with the rank of PROFES- SOR. Administrative experience or demonstrated leadership potential preferred. The successful candidate is expected to conduct a vigorous personal program of research, teaching, and departmental development. Applications should include a resume with publication list, names and addresses of three references, and a letter describing research interests and qualifications. Date available is July 1996. Applications due on or before September 16, 1996. Address to: Dr. Ernest Hodgson, Biochemistry Head Search Committee, Department of Toxicology, Box 7663, NCSU, Raleigh, NC 27695-7633.

An Equal Opportunity/Affirmative Action Employer.

EXERCISE MOLECULAR PHYSIOLOGIST

FULL PROFESSOR. The School of Kinesiology at the University of Illinois at Chicago invites applications for a faculty position at the level of Full Professor. Candidates must have a Ph.D. or M.D. and have a nationally and internationally recognized research record. Healthy individuals interested in research in the field of exercise molecular physiology will be considered. Preference will be given to those with a strong research background in exercise physiology, exercise metabolism, and molecular biology. Applicants should send a curriculum vitae and a statement of current and future research interests to: Karen K. Esser, Ph.D., School of Kinesiology, M/C 194, Uni- versity of Illinois at Chicago, 901 West Roosevelt Road, Chicago, IL 60606-1516. Full consideration will be given to applications received by April 15, 1996. The University of Illinois at Chicago is an Affirmative Action/Equal Opportunity Employer.

MEDICAL LABORATORY SCIENCES PROGRAM DIRECTOR: Oakland University School of Health Sciences invites applications for a Program Direc- tor and tenure-track position, fall 1996. Responsibilities include program administration and development, teaching in specialty area, advising, research, service, and professional activities. Minimum qualifications include a professional certification, Ph.D. in a discipline relevant to the field of medical laboratory sciences, and three to five years of clinical experience. Teaching and admin- istrative experience in program development, grant writing ability, and publication history highly desirable. Rank and salary commensurate with qualifications and experience. Applications should include a curriculum vitae, statement of research interests, the names and addresses of three references by April 1, 1996, to: Carl Vannoni, Dean of Health Sciences, Oakland University, Rochester, MI 48309-4401. Oakland Uni- versity is an Affirmative Action/Equal Opportunity Employer that encourages applications from women and minorities.

WILDLIFE HABITAT MANAGEMENT

ASSISTANT PROFESSOR in Wildlife Habitat Man- age, tenure-track, nine-month faculty position available September 1996 in the Department of Range, Wildlife, and Fisheries Management, Texas Tech University. Summer salary is normally available through a combination of teaching and research. The position is approxi- mately 50% teaching and 50% research. Applicants should have a Ph.D. in range science or closely related area. Preference will be given to individuals with experience in the area of wildlife habitat management. Applications due on or before August 1, 1996 are invited. Send curriculum vitae, transcripts, and letters of reference to: Dr. Vern L. Yost, Assistant Professor, Department of Range, Wildlife, and Fisheries Management, Texas Tech University, Lubbock, TX 79409-2125; Telephone: 806-742-1983; FAX: 806-742-2280. Texas Tech is an Affirmative Action/Equal Opportunity Employer.

GRADING MANAGEMENT

ASSISTANT PROFESSOR in Grading Manage- ment, tenure-track, nine-month faculty position available September 1996 in the Department of Range, Wildlife, and Fisheries Management, Texas Tech University. Summer salary is normally available through a combination of teaching and research. The position is approxi- mately 50% teaching and 50% research. Applicants should have a Ph.D. in range science or closely related area. Preference will be given to individuals with experience in the area of wildlife habitat management. Applications due on or before August 1, 1996 are invited. Send curriculum vitae, transcripts, and letters of reference to: Dr. Vern L. Yost, Assistant Professor, Department of Range, Wildlife, and Fisheries Management, Texas Tech University, Lubbock, TX 79409-2125; Telephone: 806-742-1983; FAX: 806-742-2280. Texas Tech is an Affirmative Action/Equal Opportunity Employer.

RESEARCH ONCOLOGIST

The Lombardi Cancer Center and the Department of Medicine at Georgetown University Medical Center invite applications for a research faculty position at the level of INSTRUCTOR in Medicine. Must be ABIM-certified and Board-certified in Medical Oncology, with demonstrated ability in basic research. Experience work with immunohistochemistry, ELISA and PCR required. The successful candidate is expected to develop a translational research program with an emphasis on angiogenesis, growth factors and blood vessel biology. Salary range will be 80% of the appointee’s time will be devoted to laboratory research. Submit a curriculum vitae and a detailed description of present and future research goals to: Dr. David E. Daston, M.D., Lombardi Cancer Center, 3970 Reservoir Road, NW, Suite 501, Washington, DC 20007.

UCLA FACULTY POSITION

UCLA-DOE Laboratory of Structural Biology and Molecular Medicine

The division of Structural Biology and Genetics of the UCLA-DOE Laboratory of Structural Biology and Molecular Medicine will appoint one faculty position at the level of ASSOCIATE PROFESSOR in Residence, jointly with departments in the College of Letters and Science or the School of Medicine. We seek a computational biochemist with an interest in genome analysis. Truly exceptional candidates in other areas will also be considered. Set up and research funds will come from the UCLA-DOE Lab. Candidates must have significant research accomplishments, the ability to establish a vigorous research program, and a commitment to excellence in education. Applicants should provide a curriculum vitae, a summary of proposed research, copies of key publications, or preprints, and three letters of recommen- dation by March 15, 1996 (extended deadline). Applications should be sent to: Dr. David Eisenberg, Chair of Search Committee UCLA-DOE Laboratory UCLA, Box 91570, Los Angeles, California 90095-5707 FAX: 310-206-3916. UCLA is an Equal Opportunity Employed and encourages applications from women and minority candidates.
The Department of Environmental Health at the University of Washington in Seattle is seeking an outstanding junior investigator to occupy a regular faculty position supported by funds from the Sheldon D. Murphy Endowed Chair in Toxicology and Environmental Health. Requirements include a Ph.D. or equivalent degree, at least two years of postdoctoral experience and a productive record of quality research. Responsibilities include development of an independent externally funded research program, teaching at the graduate level and mentoring of M.S. and Ph.D. graduate students in Toxicology. Applicants must use state-of-the-art approaches to address problems of environmental toxicology as they apply to human health. Candidates working in the area of immunotoxicology and/or molecular biomarkers are particularly encouraged, but all specialty areas will be considered. Areas of emphasis of faculty include molecular toxicology of biotransformation enzymes, neuro- and behavioral toxicology, reproductive, developmental and respiratory toxicology, mechanisms of cell injury and molecular epidemiology. Involvement in our NIEHS Center for Ecogenetics and Environmental Health will be welcomed.

Please send two copies of a curriculum vitae, a brief summary of research plans and the names of three references to: Dr. Lucio G. Costa, Chair, Toxicology Search Committee, Department of Environmental Health, 4225 Roosevelt #100, University of Washington, Seattle, WA 98105. Information on the department can be found at http://www.sphcm.washington.edu. Applications will be received until April 19, 1996.

The University of Washington is committed to a culturally diverse faculty and strongly encourages applications from female and minority candidates. AA/EOE

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**VASCULAR BIOCHEMISTS**

Merck Research Laboratories in West Point, Pennsylvania, a world leader in biological and pharmaceutical research, has two openings for a Vascular Molecular Biologist and a Vascular Biochemist in the department of Pharmacology, working on the control of vascular growth.

The first position requires expertise in molecular biological techniques such as gene cloning, PCR as well as experience in the expression of recombinant eukaryotic proteins. The second position requires a strong background in the purification of proteins and enzymology. Experience in tyrosine kinase receptor biology is desired.

A BS/MS degree or the equivalent in Molecular Biology, Biochemistry or related field with a minimum of two years research experience is required. The successful candidates must be able to work independently as well as in a team environment and possess good communication skills.

Excellent salary and benefits programs accompany this position at our modern research facilities located 25 miles northwest of Philadelphia. Please send curriculum vitae with cover letter to: Personnel Manager, Ad#6-46, MRL Human Resources, WP42-2, Merck Research Laboratories, P.O. Box 4, West Point, PA 19486. EEO/AA/V/Employer.

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**MASTER SCIENCE EDUCATOR**

The New School for Social Research is seeking a Master Science Educator to assist in developing curriculum and programs in the sciences for its Undergraduate and Graduate divisions.

Reporting to the Dean of Undergraduate Liberal Studies, you will teach three classes per year, co-chair the Committee on Science and Technology and develop a science lecture series. Other responsibilities will include assisting Undergraduate Divisions in creating a science curriculum for non-science majors, researching and creating computer-assisted resources for use in science education and developing collaborative relationships with other institutions. 3-year renewable position.

To qualify, you must have a specialization in science and teaching experience or interest in working with non-science majors.

Send letter of application, curriculum vitae and three references by March 15, 1996 to: Mr. Amos Himmelstein, Dean's Office, EUGENE LANG COLLEGE, 65 West 11th Street, New York, NY 10011. Affirmative action/equal opportunity employer.

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**ADVANCING HEALTHCARE PRODUCTS AND SERVICES WORLDWIDE**
Wanted: Committed, ambitious scientist. Must be a team player with a vision for the future. M.D./Ph.D., Ph.D., M.S. or B.S. degree necessary.

Does this describe you?

If it does, then plan to attend the bioSCIENCE Career Fairs sponsored by SCIENCE. The bioSCIENCE Career Fairs offer the perfect opportunity for scientific professionals to meet in person with representatives from top biotechnology and pharmaceutical companies, universities, governmental agencies and institutions. You can also attend the seminar, How to get a paper published in SCIENCE. This exclusive seminar is offered free of charge and will be conducted by one of SCIENCE's editors.

1996 bioSCIENCE Career Fairs
Cambridge, MA on the MIT Campus.
March 1: 11 am - 4 pm; March 1 Seminar: 11 am - 11:30 am.
March 2: 12 pm - 4 pm.
La Jolla, CA at the Scripps Research Institute, October 4-5.

To pre-register, please submit your resume or CV via fax: (202) 289-6742, or via e-mail: bioscience@aaas.org.

For more information please call (202) 326-7018.
bioSCIENCE Career Fair Information On-Line: http://www.aaas.org
(Choose SCIENCE Classified Advertising from the menu)
DEPARTMENT OF ENERGY
Human Genome Program Announcement
Ethical, Legal, and Social Implications

Energy Research Financial Assistance Program Notice 96-09: Human Genome Program – Ethical, Legal, and Social Implications

ACTION: Notice inviting grant applications.

SUMMARY: The Office of Health and Environmental Research (OHER) of the Office of Energy Research (ER), U.S. Department of Energy, hereby announces its interest in receiving applications in support of the Ethical, Legal, and Social Implications (ELSI) subprogram of the Human Genome Program (HGP). This program is a coordinated, multidisciplinary, directed research effort aimed at obtaining a detailed understanding of the human genome at the molecular level. This particular research notice encompasses research grants that address ethical, legal, and social issues that may arise from the use of information resulting from the HGP.

DATES: Potential applicants are strongly encouraged to submit a brief preapplication. All preapplications, referencing Program Notice 96-09, should be received by DOE by 4:30 P.M. E.S.T., March 28, 1996. A response discussing the potential program relevance of a formal application generally will be communicated to the applicant within 30 days of receipt. The deadline for receipt of formal applications submitted in response to this notice must be received by 4:30 P.M., E.D.T., July 11, 1996, to be accepted for merit review in September 1996 and to permit timely consideration for award in fiscal year 1997.

ADDRESSES: Preapplications referencing Program Notice 96-09 should be sent to Dr. Daniel W. Drell, U.S. Department of Energy, Office of Health and Environmental Research, ER-72, 19901 Germantown Road, Germantown, MD 20874-1290.

After receiving notification from DOE concerning successful preapplications, applicants may prepare formal applications and send them to: U.S. Department of Energy, Office of Energy Research, Grants and Contracts Division, ER-64, 19901 Germantown Road, Germantown, MD, 20874-1290. ATTN: Program Notice 96-09. The above address for formal applications also must be used when submitting formal applications by U.S. Postal Service Express Mail, and commercial mail delivery service, or when handcarried by the applicant.

FOR FURTHER INFORMATION CONTACT: Dr. Daniel W. Drell, U.S. Department of Energy, Office of Health and Environmental Research, ER-72, 19901 Germantown Road, Germantown, MD 20874-1290, by telephone (301) 903-6488, by FAX (301) 903-8521, or preferably by Email, joanne.corcoran@oer.doe.gov.

SUPPLEMENTARY INFORMATION: The DOE encourages submission of applications in support of priority research on: (a) issues of genetic heritage (including issues of genetic diversity and biodiversity), and (b) legal and social issues related to the use of genetic information, and their potential consequences. The DOE solicits applications that are aimed at understanding the potential implications of the human genome project on society, including the ethical, legal, and social implications of the HGP. The recipient of any grant from the DOE that is made under this announcement will be required to file a grant report that documents the accomplishment of the agreed upon goals and objectives of the grant.

The DOE also solicits applications for the preparation and dissemination of educational materials in any appropriate medium that will enhance understanding of scientific, as well as the ethical, legal, and social aspects of the HGP among public or specified groups. If an educational effort for a specific group is proposed, the value to the HGP of that group or community should be explained in detail. In addition, the DOE encourages applications for the support of conferences focusing on the ethical, legal, and social implications of the HGP. Issues to be examined may include (but are not limited to) implications of advances in the genetic characterization of complex traits (e.g., disease predisposition or susceptibility genes) and the impacts of advances in knowledge about polygenic conditions for various communities potentially faced with these impacts (e.g., courts, schools, etc.).

Educational and conference applications should demonstrate awareness of the relevant literature and include detailed plans for the accomplishment of project goals. In applications that propose the production of series for broadcast, audio-visuals, or other educational materials, the DOE requests that samples of previous similar work by the producers and writers be submitted along with the application. In applications for the support educational activities, the DOE requests inclusion of a plan for assessment of the effectiveness of the proposed activities. For conference applications, a detailed and largely complete roster of speakers is necessary. At the completion of the conference, a summary or report is required. Educational and conference applications must also demonstrate awareness of the need to reach the widest appropriate audience.

Ordinarily, DOE does not encourage applications dealing with issues consequent to genetic testing protocols. Additionally, DOE does not encourage survey-based research, unless a compelling case is made that this methodology is critical to address an issue of uncommon significance. For applications that propose the development of college-level curricula, DOE requests detailed justification of the need for external support beyond normal departmental and college resources, evidence of commitment from the parent department or college, and a dissemination plan. Applications for the writing of scholarly publications or books should include justifications for the relevance of the publications or books to the goals of the HGP as well as discussion of the estimated readership and impact. DOE ordinarily will not provide unlimited support for a funded program and, thus, strongly encourages the inclusion of plans for transition to self-sustaining status.

The brief preapplication, in accordance with 10 CFR 600.1 (d)(2), should consist of two to three pages of narrative describing the research project objectives and methods of accomplishment. The preapplications will be reviewed for relevance to the notice, and further instructions will be provided with the response. Preapplications determined by staff of the Office of Health and Environmental Research to be insufficiently directed at the goals of the notice will be returned without further review to the applicant. Telephone and facsimile numbers are required parts of the preapplication, and electronic mail addresses are desirable.

It is anticipated that approximately $1,300,000 will be available for grant awards in this area during FY 1997, contingent upon availability of appropriated funds. Multiple year funding of grant awards is expected, and is also contingent upon availability of funds. Previous awards have ranged from $50,000 per year up to $500,000 per year with terms from 1 to 3 years; most awards average about $200,000 per year for 2 of 3 years. Similar award sizes are anticipated for new grants.

Information about development and submission of applications, eligibility, limitations, evaluation, selection process, and other policies and procedures may be found in 10 CFR Part 605, and in the Application Guide for the Office of Energy Research Financial Assistance Program. The Application Guide is available from the U.S. Department of Energy, Office of Health and Environmental Research, Health Effects and Life Sciences Research Division, ER-72, 19901 Germantown Road, Germantown, MD 20874-1290. Telephone requests may be made by calling (301) 903-6488. Internet requests can be made to: joanne.corcoran@oer.doe.gov Electronic access to ER’s Financial Assistance Guide is possible via the Internet using the following E-mail address: http://www.er doe.gov.

The Office of Energy Research, as part of its grant regulations, requires at 10 CFR 605.11 (b) that a grantee funded by ER and performing research involving recombinant DNA molecules and/or organisms and viruses containing recombinant DNA molecules shall comply with the National Institutes of Health “Guidelines for Research Involving Recombinant DNA Molecules” (59 FR 34496, July 5, 1994), or such later revision of those guidelines as may be published in the Federal Register.

The dissemination of materials and research data in a timely manner is essential for progress toward the goals of the DOE HGP. The OHER requires the timely sharing of resources and data. Applicants should, in their applications, discuss their plans for disseminating research results and materials that may include, where appropriate, publication in the open literature, wide-scale mailings, etc. Once OHER and the applicant have agreed upon a distribution plan, it will become part of the award conditions. Funds to defray costs of disseminating results and materials, therefore, such requests must be sufficiently detailed and adequately justified. Applicants should also provide timelines projecting progress toward achieving proposed goals.

The Catalog of Federal Domestic Assistance Number for this program is 81.049, and the solicitation control number is ERAFP 10 CFR part 605.

Vascular biologist, Ph.D. A position opening at the POSTDOCTORAL POSITION available for a qualified vascular biologist with a Ph.D. in molecular biology, physiology, pharmacology. Join a multidisciplinary, inter-institutional research team exploring the interactions between neural innervation, signal transduction, and intercellular communication to the initiation, maintenance, and modulation of vascular tone and dysfunction. Send a letter of career research interests, curriculum vitae, and three letters of recommendation to: Dr. George T. Fox, Professor, Room 7165 Forchheimer Building, Albert Einstein College of Medicine, 1303 Morris Park Avenue, Bronx, NY 10461. Equal Opportunity Employer.

A POSTDOCTORAL POSITION in the Department of Medicine, University of Cambridge School of Medicine, is available beginning in spring/summer 1996. This position involves the study of membrane proteins that mediate the responses of lymphocytes. Candidates must have experience in protein chemistry, molecular biology, and functional analysis of B lymphocyte membrane proteins. Applicants should submit a curriculum vitae, a letter of interest and motivation, and three letters of recommendation to: Ms. Carol Bowen, School of Clinical Medicine, Hills Road, Cambridge CB2 2SP England.

POSTDOCTORAL POSITION available in an exciting, NIH-funded pulmonary research lab investigating pulmonary infections (especially, M. tuberculosis and P. carinii). Studies involve adherence/phagocytosis mechanisms, host defense, and therapeutic strategies. "Hands-on" experience in molecular biology, microbiology, and/or immunology preferred. Experience with aerosol technology and protein purification and bacterial injury beneficial. Send curriculum vitae and three references to: W. J. Martin II, M.D., Indiana University, 725 W. DFOP, 1001 West 10th Street, Indianapolis, IN 46202.

A SENIOR RESEARCH ASSOCIATE position and RESEARCH SCHOLAR position available immediately to study molecular mechanisms of tumorigenesis, involving tumor suppressor genes and oncogenes. Very competitive salary depending on experience. Send curriculum vitae and names of three references to: Yuen Kai Fung, Ph.D., Associate Professor, University of Southern California School of Medicine Hospital Los Angeles, 4650 Sunset Boulevard, Mailstop 94, Los Angeles, CA 90027. Equal Employment Opportunity/Affirmative Action.

POSTDOCTORAL POSITIONS available immediately for Ph.D. in molecular biology, genetics, or biochemistry to define the role of protein kinase C and retinoic acid nuclear receptors in translational regulation using transcriptional and knock-out mouse models. Strong background in molecular biology and genetic analysis required. Send curriculum vitae and names of three references to: Dr. F. LaRusso, M.D., Program Director, NIH Training Grant, Mayo Clinic, Rochester, MN 55905.

Autoimmune disease is necessary. Send curriculum vitae with names of three references to: W. J. Martin II, M.D., Indiana University, 725 W. DFOP, 1001 West 10th Street, Indianapolis, IN 46202.

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**Scientific Research Opportunities**

Innovative research at Sandoz has been enhancing medicine around the world for over a century. Pioneering drugs have extended and improved the quality of life for countless individuals and revolutionized basic scientific concepts within the transplantation and mental health fields. Our developments are the result of research conducted by professionals who specialize in many different fields. We currently have openings for scientists in our Oncology and Metabolic Diseases Departments.

**ONCOLOGY**

The successful candidate will be responsible for the development of in vivo models of angiogenesis and metastasis as part of a large preclinical oncology research program. Responsibilities will include the testing of agents in these models to identify novel inhibitors of tumor angiogenesis. The candidate will also be responsible for performing pharmacological analyses and studies to characterize the selectivity and mechanism of action of these agents.

Candidates should have a Ph.D. or equivalent with about three to five additional years of relevant experience in the areas of tumor biology, tumor angiogenesis and in vivo modeling in cancer. Knowledge of tumor physiology and cancer pharmacology and hands-on experience with a variety of in vivo tumor models is required. Experience in the area of preclinical drug development would be an advantage. (Position #3447)

Sandoz offers comprehensive health, dental and savings plans, as well as an attractive location in northern New Jersey. For consideration, please specify the number of the position you are responding to and forward your curriculum vitae and the names and addresses of three references to:

**SANDOZ PHARMACEUTICALS CORP**

Staffing Department
Building 122/3
East Hanover, NJ 07936
An Equal Opportunity Employer M/F/D/V

**METABOLIC DISEASES**

This position requires an in vivo physiologist to run a pharmacology laboratory in metabolic disease research. The incumbent will supervise 2-4 scientists and take responsibility for drug discovery, preclinical development and basic research in carbohydrate and lipid metabolism. This will include working with a multidisciplinary team of scientists to profile development compounds, optimize in vivo modeling for metabolic diseases and identify new therapeutic targets.

A Ph.D. or equivalent with about three to five additional years of relevant experience in physiology, endocrinology, pharmacology or a related field and extensive knowledge of carbohydrate and lipid metabolism, and disorders thereof, are required. The chosen candidate must also have extensive experience with in vivo experimentation and data interpretation. Good communication skills and demonstration of creative scientific thinking as evidenced by relevant scientific publications are also required. (Position #3320)

**SMITHKLINE BEECHAM PHARMACEUTICALS**

Bristol-Myers Squibb

Research Investigators
Pharmaceutical Development

One of the positions is responsible for managing a group that implements, optimizes, and validates in vitro molecular and immunological techniques used to characterize natural and recombinant protein products. Requirements are a Ph.D. in Cell and Molecular Biochemistry with proven experience in Molecular Biology, Immunology and Biotechnical Techniques (e.g., in cell transfections, reporter cell lines, hybridoma technology, immunoassays). Experience in instrument automation and computer science is desired. Candidates must have the ability to lead a team of 4-6 scientists. Job #SY95083.

The second position is to supervise and direct a multi-disciplinary team of scientists in Physical Biochemistry charged with characterizing physical properties of biological products. The laboratory will develop new methods to analyze protein structures, carbohydrates, and modified amino acids. Proven experience in bioanalytical techniques (e.g., peptide mapping/sequencing, chromatography, and spectroscopy) is required. Candidate must maintain an awareness of current literature, recommend and implement new technology. Must have demonstrated ability for independent experimental design, interpretation and report writing. Requirements for this position are a Ph.D. with 4-8 years of experience managing a protein characterization group. Job #SYR95052.

We offer excellent salary and comprehensive benefits. For consideration, forward your résumé and salary requirements and job number to: Manager, Human Resources, Bristol-Myers Squibb Pharmaceutical Research Institute, P.O. Box 4755, Syracuse, NY 13221-4755.

Equal Opportunity Employer, M/F/D/V

**MOLECULAR IMMUNOLOGY**

**Postdoctoral Scientist**

SmithKline Beecham, a world leader in pharmaceutical research, has an immediate opening for a Postdoctoral Scientist to join our multidisciplinary research group in the area of molecular immunology.

The selected individual would be responsible for designing and executing experiments using recombinant antibody technology, with an initial focus on novel surface antigens on subsets of hematopoietic and lymphoid cells. Expectations would also include significant interaction with other staff in discussion and interpretation of results and strategies, as well as presentation of results in departmental seminars and external meetings and publications.

The successful candidate will have a Ph.D. in Molecular Biology, Immunology or a closely related discipline, along with practical experience in recombinant DNA technology, a background in immunology, and a strong record of scientific publications. Use of radioactive reagents at moderate levels will be necessary.

Located in our state-of-the-art research facility in suburban Philadelphia, SmithKline Beecham offers a competitive compensation/benefits/relocation package. For confidential consideration, please forward a resume and salary requirements to: SmithKline Beecham Pharmaceuticals, Job Code HS-0066, P.O. Box 2646, Bala Cynwyd, PA 19004. We are an Equal Opportunity Employer, M/F/D/V.

SB

SmithKline Beecham
Pharmaceuticals

Challenging the natural limits.
**POSTDOCTORAL POSITION**

**University of Pittsburgh Medical Center**

Position available on January 1997 in the Division of Cardiology to study the molecular, cellular, and electrophysiological properties of mutants of cardiac arrhythmias using transgenic and knockout technology in the mouse. Extensive prior experience with myocyte cellular physiology, fluorescent intracellular calcium measurement, or patch clamp techniques is required. Send curriculum vitae and names of three references to: Mary Beth Bawden, Division of Cardiology, University of Pittsburgh Medical Center, Fifth Floor Scaife Hall, 200 Lothrop Street, Pittsburgh, PA 15213.

**POSTDOCTORAL POSITION**

**University of Texas Health Science Center at Houston**

The H. M. Jackson Foundation for the Advance- ment of Medical Research in Texas funds a new position to work in the laboratory of Stefanie N. Vogel, Ph.D., Department of Microbiology and Immunology, University of Texas Health Science Center at Houston. Send a curriculum vitae, position available immediately for an NIH sponsored study of the role of intracellular signaling pathways in endoross (LPS)-stimulated macrophages. Experience in molecular biology and/or biochemistry preferable. Salary is commensurate with experience. Send letters of application, curriculum vitae, and names of three references to Human Resources, Atten- tion: PL 2960032, Henry M. Jackson Foundation for the Advancement of Military Medicine, 1401 Rockville Pike, Suite 600, Rockville, MD 20852. Affirmative Action/Equal Opportunity Employer.

**POSTDOCTORAL POSITION**

Position available at the Weis Center for Research in Danville, Pennsylvania in the laboratory of Dr. William Maltese. Studies focus on structure-function analysis of Rab GTP-binding proteins and the roles of specific Rab proteins in intracellular trafficking of Alzheimer’s amyloid precursor protein. The Weis Center is a well-equipped, modern research facility in an attractive rural environment. Starting date is flexible and salary depends on experience. Send curriculum vitae with the names and telephone numbers of three references to: Dr. Kenneth L. Williams, Department of Molecular Biology and Biochemistry, Yale University School of Medicine, 333 Cedar Street, New Haven, CT 06520-8024. Yale University is an Equal Opportunity Employer. minorities/Females/Dis- abled/Veterans.

**POSTDOCTORAL POSITION**

Position available immediately to study structure/function relationships in mRNA binding proteins. Applicants should have experience in one or more of the following areas: molecular biology, including protein expression; fluorescence; circular dichroism; measurement of protein-nucleic acid binding affinities; protein chemistry; oligonucleotide purification; other areas of biophysics. Applicants should send curric-ulum vitae and the names of three references to: Dr. Kenneth R. Williams, Department of Molecular Bio- physics and Biochemistry, Yale University School of Medicine, 333 Cedar Street, New Haven, CT 06520-8024. Yale University is an Equal Opportunity Employer.

**BIOCHEMISTRY POSTDOCTORAL OPPORTUNITIES**

Oak Ridge National Laboratory (ORNL), located in Oak Ridge, Tennessee, has several POSTDOCTORAL POSITIONS available in the Chemical and Analytical Sciences Division for R&D to work on “Laboratory-on-a-Chip” research involving development and application of reagentless miniaturized devices that can perform chemical and biochemical procedures. Biochemical materials of interest include antibodies and enzymes, and should have an interest in technological developments related to the acquisition of biochemical information. One candidate would have experience in biochemistry, information, and appropriate Ph.D. training should send a cur-riculum vitae, three letters of recommendation, and cop-ies of graduate and undergraduate transcripts to: Dr. Michael M. Ramsey, Department of Biochemistry, Department of SCI 0226, P.O. Box 2008, Oak Ridge, TN 37831-6142. ORNL is a multipurpose research organization engaged in basic and applied research for the U.S. Department of Energy. An Equal Opportunity Employer Committed to building and maintaining a diverse workforce.

**POSTDOCTORAL POSITION**

**University of Chicago**

Postdoctoral Fellow in AIDS Research

The University of Chicago is seeking applications from qualified applicants for THE JOHN S. BARAN FELLOWSHIP IN AIDS RESEARCH. Application deadline is April 30, 1996. Applicants must have a strong interest in AIDS research and be interested in develop an AIDS-related research project in an immunology laboratory. We offer postdoctoral training in preparation for research careers in academia and industry. Fellowships are available for one year, renewable for a second. Applicants should contact the Committee on Immunology, University of Chicago, 5841 S. University Avenue, Chicago, IL 60637, or http://wwwbsd.uic.uchicago.edu. The University of Chicago is an Affirmative Action/Equal Opportunity Employer.

**POSTDOCTORAL POSITION**

**Matrix Developmental Biology/Transgenesis**

University of Pennsylvania Veterinary School

Position available immediately to study molecular mechanisms of skeletogenesis and hematopoiesis using transgenic mouse models (Nature, 365:56, 1993). Candidates should have a Ph.D. in biology, cell biology, and/or molecular biology. Please send 1) brief statement of research interests, capabilities, and goals; 2) curriculum vitae; and 3) three letters of recommendation to: Dr. Olenna M. Jacenko, University of Pennsylvania School of Veterin ary Medicine, 3800 Spruce Street, Philadelphia, PA 19104-6046 or http://wwwbsd.uic.uchicago.edu. An Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITION**

**University of British Columbia**

**Biochemistry**

To study cellular immune mechanisms in molecular and gene therapy approaches to cancer immunotherapy in animal systems and in human translational research, available July 1996. Applicants must possess a Ph.D. and demonstrate experience in cellular immunology. Send curriculum vitae and arrange for three letters of recommen-dation to be sent to: Jonathan J. Lewis, M.D., Ph.D., Immunology Program, Box 126, Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, New York, NY 10021. FAX: 212-794-5347. Memorial Sloan-Kettering Cancer Center is an Equal Opportunity Employer.

**POSTDOCTORAL POSITION**

**Cellular and Molecular Immunology**

To study cellular immune mechanisms in molecular and gene therapy approaches to cancer immunotherapy in animal systems and in human translational research, available July 1996. Applicants must possess a Ph.D. and demonstrate experience in cellular immunology. Send curriculum vitae and arrange for three letters of recommen-dation to be sent to: Jonathan J. Lewis, M.D., Ph.D., Immunology Program, Box 126, Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, New York, NY 10021. FAX: 212-794-5347. Memorial Sloan-Kettering Cancer Center is an Equal Opportunity Employer.

**POSTDOCTORAL POSITION**

**University of Texas Health Science Center at Houston**

Position available immediately to study novel molecular targets of cocaine and marijuana in preclinical models. The position is aimed at the preclinical investigation of novel strategies to modulate the expression of cocaine-induced changes. Applicants should send curriculum vitae and the names of three references to: Dr. Jonathan J. Lewis, Immunology Program, Immunology Program, Box 126, Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, New York, NY 10021.

**BIOLOGY FELLOWSHIPS**

**UBC Centre for Biodiversity Research**

The University of British Columbia

We seek applicants for three two-year POSTDOC-TRAL Fellowships in the new University of British Co-lumbia (UBC) Centre for Biodiversity. The UBC Centre is made up of over 30 members of the UBC Science Faculty with interests in systematics, ecology, and conservation. Preference will be given to candidates with both demography and speciation research interests, and strong communication skills. Successful candidates will be expected to conduct original research on core problems in biodiversity and conservation, and to foster interactions within the centre. Starting date: 1 September 1996. Salary $29,000 per annum (Canadian). Send curriculum vitae, three letters of recommendation to: J. M. N. Smith, Director, Centre for Biodiversity Re-search, Department of Zoology, UBC 6720 Univer-sity Boulevard, Vancouver, B.C. V6T 1Z4 Canada. Fax: 604-822-2416. Send handwritten applications or FAX resume and curriculums vitae, three letters of recommendation to: Dr. Graham Stott, North Central Forest Experiment Station, 5985 County Road K, Rhinelander, WI 54501 USA. Telephone: 715-362-1114. Email: cecth@newnorth.net.

**HARVARD MEDICAL SCHOOL**

**POSTDOCTORAL POSITIONS**

**To study signal transduction, cytokine cascades, and transcriptional regulation in cells responding to stress (heat shock, oxidative, radiational) and treatment with cytokines and other growth factors in molecular biology (gene expression/transcription regulation) and protein phosphorylation. Send curriculum vitae to: Drs. S. R. Calderwood and M. A. Pincus, Dana Farber Cancer Institute and Joint Center for Radia-tion Therapy, JPB 205, 44 Binney Street, Boston, MA 02115. An Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITION**

**Seeking a POSTDOCTORAL FELLOW to work on mechanism of bacterial chemotaxis or other bacterial be-havior. Successful fellowship application is desirable. Can-didates should send a curriculum vitae and three letters of reference to: Dr. John C. M. Ramsey, Department of Microbiology and Immunology, 420 Henry Mall, Madison, WI 53706. Telephone: 608-262-3693; FAX: 608-262-3453.**
TENURE-TRACK SCIENTIST

Cellular, Molecular or Developmental Neurobiology
National Institute of Neurological Disorders and Stroke
National Institutes of Health (NIH)

The Intramural Research Program of the National Institute of Neurological Disorders and Stroke invites applications to fill a tenure-track or tenured research position at the NIH. We are seeking exceptional candidates to establish an independent and imaginative research program in cellular, molecular or developmental neurobiology, preferably, but not necessarily, in mammalian systems. A Ph.D. or M.D. and two or more years of productive postdoctoral experience are required. Research support (positions, laboratory budget and space) will be provided by NINDS. The level of appointment (tenure-track investigator or tenured scientist), salary and research resources will be commensurate with the qualifications and experience of the candidate.

Applicants should send curriculum vitae, bibliography, statement of research interests and three letters of reference to: Dr. Story Landis, c/o Alfred L. Salas; Building 31, Room 8A23, NINDS, NIH; 31 Center Drive, MSC 2540; Bethesda, MD 20892-2540.

Applications must be postmarked by March 31, 1996.

NIH is an Equal Opportunity Employer

LICENSING ASSOCIATE

Memorial Sloan-Kettering Cancer Center has an excellent opportunity to handle all phases of invention development and technology transfer.

Specific challenges will include interacting with research laboratories to find and develop technologies with commercial potential, analyzing technical and market risks and seeking potential licensees to invest resources in the development of technology. Other challenges will involve supervising the filing and prosecution of patent applications and advising researchers regarding intellectual property matters, consulting agreements, material transfer agreements and industrial sponsored research.

We require a substantial, relevant background in health-science. Experience in business and marketing is desirable.

We offer a competitive salary and a comprehensive benefits program. Please send your resume to: Andrew D. Maslow, Director, Office of Industrial Affairs, MSKCC, 1275 York Avenue, New York, NY 10021. EOE/AA.

AN IMPORTANT LINK IN HEALTHCARE SERVICES

SmithKline Beecham is a $9.2 billion global pharmaceutical and healthcare company. Our world famous products and reputation mean unsurpassed opportunities for individuals to combine their scientific and marketing expertise for the following positions:

Oncology Medical Associates

In anticipation of FDA approval of SmithKline Beecham's latest breakthrough in cancer therapeutics, we are seeking individuals to expand a nationwide sales force of highly skilled professionals. Because oncology is different from other areas of healthcare, it is necessary that qualifying candidates possess a high degree of empathy and flexibility. Among their responsibilities, selected candidates will develop business plans, maximize customer rapport; create effective presentations, coordinate educational symposia, maintain a technical data base and create an environment where customers share SmithKline Beecham's mission to improve healthcare. Candidates should have at least 6 years' experience in a technical sales or marketing capacity, a PharmD or PhD in Pharmacology or related scientific discipline, and expert knowledge of oncology and the changing medical environment. Refer to Job Code OMA.

Regional Medical Associates

As Medical Associates, successful candidates will establish relationships within major managed care organizations for the purpose of acting as scientific liaisons and providing in-depth information regarding SmithKline Beecham products. This includes training representatives and medical professionals, and being responsible for outcome models. To qualify, you must have a PharmD or PhD in Pharmacology, strong marketing/communication skills and a high degree of initiative. Refer to Job Code RMA.

Both Oncology Medical Associate and Regional Medical Associate positions are available in various locations across the United States. Therefore, when you reply, please indicate if you are able to relocate and/or what geographic area to which you are limited. 40-50% travel required for both positions.

We offer one of the best compensation packages - including a car - in the industry. If you'd like to be a part of our success, send your resume with salary history, indicating desired Job Code, to: SmithKline Beecham, Central Employment, Job Code ____, 200 N. 16th Street, Philadelphia, PA 19101. We are an Equal Opportunity Employer, M/F/D/V.
Join the QIAGEN Team!

QIAGEN, the world wide leader in nucleic acid purification, is seeking highly motivated and talented individuals to join our rapidly growing team. QIAGEN is committed to providing high quality, innovative purification products to the molecular biology and molecular diagnostic research communities.

Associate Product Manager - Genomic Sequencing. Expand your scientific horizons in a team dedicated to providing tools for the 21st century in the area of high-throughput DNA sequencing/machine analysis. Applicants should have an M.S. or Ph.D. degree in a molecular biology-related area and a minimum of two years experience in high-throughput DNA sequencing. Sales and marketing experience is a plus. (REF:APM/GS-0296)

Associate Product Manager - Molecular Biology. Take advantage of expanding opportunities in the molecular research and diagnostic markets! Applicants should have an M.S./B.S. degree in a molecular biology-related field, significant molecular biology-related laboratory research and/or two years of sales or marketing experience that includes DNA purification products. (REF:APM/MB-0296)

For both positions responsibilities include marketing, conceptualizing, coordinating product launches, contacting customers, and supporting the sales team. 30% travel is typical. Outstanding communication skills are required.

QIAGEN is a rapidly growing, highly successful company located in the western San Fernando Valley. The corporate atmosphere is friendly and informal, and provides a team working environment. QIAGEN offers competitive salaries, a comprehensive benefit package including a 401(k) plan, and is committed to aiding employee personal and professional development with sponsored continued education. If you think you have what it takes to contribute to QIAGEN's continued success, take this opportunity to become part of the QIAGEN team.

Send resumes to Human Resources (Ref. No.), QIAGEN INC., 9600 DESOTO AVE, CHATSWORTH, CA 91311, FAX 800-718-2056

QIAGEN Inc.
9600 DeSoto Avenue
Chatworth, CA 91311 USA
Telephone 800-426-8157
Fax 800-718-2056

A SCIENCE Special Feature Story

Women and Minorities in Science

Bonus Distribution to NOBCChE and MWIS

Issue date: 29 March  •  Space reservation deadline: 12 March

Bonus Distribution. Copies of this issue will be distributed by SCIENCE staff at the National Organization for Black Chemists and Chemical Engineers (NOBCChE) national conference in Detroit, Michigan and to the members of Minority Women in Science (MWIS).

Placement on SCIENCE Classified Advertising On-Line. Every recruitment advertisement in SCIENCE receives placement on the SCIENCE world wide web service at no extra charge.

http://www.aaas.org

For more information or to reserve your space, contact Janis Crowley.
Phone: (212)496-7704 • Fax: (202)289-6742

Faculty Position in Cytokine Regulation
Departments of Surgery and Physiology
Michigan State University

The Departments of Surgery and Physiology invite applications for a tenure-track joint appointment, preferably at the ASSISTANT or ASSOCIATE PROFESSOR level. We seek an outstanding candidate with a Ph.D. degree or equivalent with training in physiology, biochemistry or molecular biology. Preference will be given to individuals with an interest in metabolic regulation with an emphasis on cytokine regulation of lipid and carbohydrate metabolism. We seek individuals using modern molecular approaches to understand normal and disease processes associated with trauma or chronic disease. Candidates are expected to develop a vigorous externally funded research program and to teach undergraduate, graduate, or medical students. Interested individuals should provide a complete curriculum vitae, a brief statement of research interests and bibliography and copies of key publications or reprints. Applicants should arrange to have at least three (3) letters of recommendation sent from scientists who can evaluate their accomplishments and future potential for research and teaching. Applications should be sent to: James Harkema, M.D., Search Committee Chairperson, Department of Surgery, Michigan State University, 8424 Clinical Center, East Lansing, Michigan 48824-1315. Application deadline: March 15, 1996 or until filled.

Michigan State University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.
DEPARTMENT OF ENERGY
Human Genome Program Announcement
Technological Advances

Energy Research Financial Assistance Program Notice 96-08: Human Genome Program
Technological Advances

ACTION: Notice inviting grant applications

SUMMARY: The Office of Health and Environmental Research (OHER) of the Office of Energy Research (ER), U.S. Department of Energy, hereby announces its interest in receiving grant applications under the DOE Human Genome Program (HGP). This program is a coordinated, multidisciplinary, goal-oriented research effort to obtain a detailed understanding of the human genome at the molecular level. The objective of this notice is to promote substantive improvements in high-throughput, integrated approaches to large-scale human genome sequencing and its analysis. Four solicited topics are: (1) supporting instrumentation and automation systems; (2) assembly of multi-megabase scale, ordered and sequence-ready DNA clones; (3) informatics for the rapid assembly, analysis, and annotation of data from high-throughput sequencing; and (4) informatics for facile submission, retrieval, and visualization of data for single or multiple related databases, specifically including the Genome Data Base and the Genomic Sequence Data Base. Applicants must address clearly how the proposed work will help achieve the sequencing goals of the HGP. Collaborative, multidisciplinary efforts are specifically encouraged.

DATES: Potential applicants are strongly encouraged to submit a brief preapplication. All preapplications, referencing Program Notice 96-08, should be received by DOE by 4:30 P.M. EST, March 28, 1996. A response discussing the potential program relevance of a formal application generally will be communicated to the applicant within 30 days of receipt. The deadline for receipt of formal applications submitted in response to this notice must be received by 4:30 P.M., E.D.T., July 11, 1996, in order to be accepted for merit review in September 1996 and to permit timely consideration for awards in fiscal year 1997.

ADDRESSES: All preapplications, referencing Program Notice 96-08, should be sent to Ms. Joanne Corcoran, U.S. Department of Energy, Office of Health and Environmental Research, ER-72, 19901 Germantown Road, Germantown, MD 20874-1290. After receiving notification from DOE concerning successful preapplications, applicants may prepare formal applications and send them to: U.S. Department of Energy, Office of Health and Environmental Research, Grants and Contracts Division, ER-64, 19901 Germantown Road, Germantown, MD 20874-1290, ATTN: Program Notice 96-08. The above address for formal applications also must be used when submitting formal applications by U.S. Postal Service Express Mail, any commercial mail delivery service, or when hand-carried by the applicant.

FOR FURTHER INFORMATION CONTACT: Dr. Gerald Goldstein, if referencing topic (1); Dr. Marvin Goldstein, if referencing topic (2); and Dr. Jay Stanier, if referencing topics (3) or (4) at the U.S. Department of Energy, Office of Health and Environmental Research, ER-72, 19901 Germantown Road, Germantown, MD 20874-1290, by telephone (301) 903-6488, by facsimile (301) 903-8521, or preferably by E-mail, joanne.corcoran@er.doe.gov. General HGP information can also be obtained on the World Wide Web (WWW) Internet browsers at: http://www.erc.doe.gov/production/open/hr/hug_top.html, http://www.ornl.gov/researchresources/human_genome/home.html, and sites linked to these WWW pages. The 5-year goals of the U.S. HGP are published in the journal Science, volume 262, pages 43-46.

SUPPLEMENTARY INFORMATION: The brief preapplication, in accordance with 10 CFR 600.10(d)(2), should consist of two to three pages of narrative describing the research objectives and methods of accomplishment. The preapplications will be reviewed for relevance to the notice, and further instructions will be provided with the response. Preapplications determined by staff of the Office of Health and Environmental Research to be insufficiently directed at the goals of this notice will be returned without further review to the applicant. Telephone and FAX numbers are required parts of the preapplication, and electronic mail addresses are desirable.

It is anticipated that approximately $2,000,000 will be available for grants in this area during FY 1997, contingent upon availability of appropriated funds. Multiple year funding of grant awards is expected, and is also contingent upon availability of funds, progress of the research, and continuing program need. Projected awards will be in the range of $50,000 per year up to $1,000,000 per year with terms of 2 to 3 years.

Information on the development and submission of applications, eligibility, limitations, evaluation, selection process, and other policies and procedures may be found in 10 CFR Part 605, and in the Application Guide for the Office of Energy Research Financial Assistance Program. The Application Guide will be communicated to the U.S. Department of Energy, Office of Health and Environmental Research, Health Effects and Life Sciences Research Division, ER-72, 19901 Germantown Road, Germantown, MD 20874-1290. Telephone requests may be made by calling (301) 903-6488. Internet requests can be made to: joanne.corcoran@er.doe.gov. Electronic access to ER's Financial Assistance Guide is possible via the Internet using the following E-mail address: http://www.er.doe.gov

The Office of Energy Research, as part of its grant regulations, requires that at 10 CFR 605.11(b) that a grantee funded by ER and performing research involving recombinant DNA molecules and/or organisms and viruses containing recombinant DNA molecules shall comply with the National Institutes of Health "Guidelines for Research Involving Recombinant DNA Molecules" (59 FR 34496, July 5, 1994) or such later revision of those guidelines as may be published in the Federal Register.

The Catalog of Federal Domestic Assistance Number for this program is 81.049, and the solicitation control number is ERFA P 10 CFR part 605.


"Energy Research Financial Assistance Program Notice 96-08: Human Genome Program Technological Advances"
Institute of Molecular Biology (IMB)  
Academia Sinica  
announces an  
INTERNATIONAL SYMPOSIUM  
"Molecular Biology: The Next Decade"  
May 20–22, 1996

to celebrate the 10th anniversary of the establishment of IMB. Speakers from local institutions in Taiwan and from abroad will gather and discuss the future development of molecular biology in relation to the fields of biology, medicine and biotechnology. Poster sessions will also be held to facilitate interaction between the speakers and the symposium participants.

Currently Scheduled Speakers:
Tom Ceci (U. Colorado-Boulder)  
Soo-Chen Cheng (IMB)  
Yueh-Hsiu Chien (Stanford U.)  
Chen-Kung Yueh-Hsiu (Yang-Ming U.)  
Mark M. Davis (Stanford U.)  
Philip C. Hanawalt (Stanford U.)  
Yuh Nung Jan (UCSP)  
Rudolf Jaenisch (Whitehead Inst.)

Sponsors:
Academia Sinica, Taipei, ROC  
Foundation for the Advancement of the Outstanding Scholarship, ROC  
National Health Research Institute, ROC  
National Science Council, ROC  
The Chinese Society of Cell and Molecular Biology, ROC

Main Topics:
Cellular Communication and Signal Transduction  
Nuclear Structure & Function  
Structural Biology and Medicine  
Genetics and Development

Abstract deadline: March 15, 1996.

For registration information and abstract form, please contact:  
Fei Chen, Institute of Molecular Biology, Academia Sinica  
Nankang, Taipei 115, Taiwan, R.O.C.  
FAX: 886-2-782-6685  
email: FEICHEN@CCVAX.SINICA.EDU.TW

Max-Planck-Institute  
of Cognitive Neuroscience, Leipzig  

A position for a  
cognitive neuroscientist

is available for the investigation of brain-behavior relationships in visual working memory. The successful candidate will be associated with the Experimental Neuropsychology Unit, Department of Neurology. Our principal aim is the development of cognitive experiments for fMRI. This is done in collaboration with our team of NMR physicists, who run the NMR-facilities (a Bruker scanner with a 3 Tesla magnet) and develop new scanning techniques. Furthermore we have a research unit devoted to the development of new image and signal processing algorithms. MEG and EEG is also available at the Institute.  

We are looking for a colleague with research experience in cognitive psychology and knowledge of neuroanatomy and -physiology who wants to develop innovative experiments for fMRI and is willing to work in a multidisciplinary environment.  

The contract will be limited to 3 years.  

For further information please contact Dr. Stefan Pollmann (pollmann@cns.mpg.de, Tel. +49 341 9940-226, Fax -221). To apply, please send your CV along with a statement of research interests and selected publications to:  
Max-Planck-Institute of Cognitive Neuroscience  
Verwaltung - W/N  
Inselstraße 22 - 26, D-04103 Leipzig  
Germany

KUWAIT INSTITUTE FOR SCIENTIFIC RESEARCH  

Kuwait Institute for Scientific Research (KISR) is a nonprofit organization actively engaged in applied research in the fields of environmental and earth sciences; water resources; food resources; engineering; petroleum, petrochemicals and materials; and techno-economics. KISR has a vacancy in the following field:

**Plant Science**

**Major duties:**
- Carry out research on date palm tissue culture propagation to include acclimatization and greenhouse transfer to increase the efficiency of the system developed.  
- Be responsible for the semi-pilot production of date palm and determine the cost of production.  
- Carry out research on genetic improvement of date palm via cell culture techniques.  
- Develop research projects in the field of plant cell and tissue culture for the advancement of agriculture and greenery in Kuwait.  
- Interact with other scientists in promoting research activities at KISR.  
- Carry out training of Kuwait nationals in the field of tissue and cell culture, genetics and plant science in general.

**Qualifications:** Applicants should have a Ph.D. in an appropriate Plant Science with 5 to 10 years of related experience, and a strong background in plant physiology and biochemistry. Familiarity with plant transformation techniques desirable. Good publication record, effective organization and communication skills essential.

KISR offers attractive tax-free salaries commensurate with qualifications and experience and generous benefits that include: gratuity, free furnished and air-conditioned accommodation, school tuition fees for children, six weeks annual paid vacation, air tickets, free medical care and life insurance. Interested applicants are requested to send their Curriculum Vitae with supporting information not later than one month from the date of this publication to:

**Personnel Manager**  
Kuwait Institute for Scientific Research  
P.O. Box 24885  
13118 Safat, Kuwait.
GRANTS FOR INTERNATIONAL JOINT RESEARCH IN THE AREAS OF MATERIALS, ENERGY AND GLOBAL ENVIRONMENT

The New Energy and Industrial Technology Development Organization (NEDO), a Japanese governmental implementing agency supervised by the Ministry of International Trade and Industry (MITI) of Japan, has been carrying out an International Joint Research Program since 1988. This program aims to contribute to the enhancement of the international level of industrial technology as well as to the advancement of international exchange by supporting international joint research teams which conduct superior research. In addition to supporting international joint research teams which conduct original and innovative basic research in the materials area, international joint research teams which conduct research in the energy area and the global environment area will be provided with grants in FY 1996. The program in the global environment area will be conducted jointly with the Research Institute of Innovative Technology for the Earth (RITE).

Research grants will be provided to "International Joint Research Teams" which fulfill the following main requirements:
1. Each team, in principle, must be composed of four or more researchers;
2. Each team must consist of researchers of two or more different nationalities;
3. The research organizations where the team members’ major activities take place must be located in two or more countries.
4. Each team must appoint a research coordinator and an accounting coordinator. The accounting coordinator must be responsible for accounting matters and function as the liaison between the team and NEDO.

The accounting coordinator’s organization and research site must be located in Japan, and he/she must be able to communicate with NEDO in Japanese about all accounting matters. The research coordinator can also hold the post of accounting coordinator.

FY 1996’s program is shown below.

<table>
<thead>
<tr>
<th>Research Area</th>
<th>Field of Research</th>
<th>Amount of Each Grant</th>
<th>Number of Themes to be Adopted</th>
<th>Recipients of Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Materials</td>
<td>1) Basic research concerning the investigation and elucidation of materials</td>
<td>about 30,000,000 yen in FY 1996</td>
<td>3 themes</td>
<td>NEDO (Note a.)</td>
</tr>
<tr>
<td></td>
<td>2) Basic research concerning the practical use of materials</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Energy</td>
<td>Practical research on electric power generation technologies using oil-alternative energy, on load leveling technologies and on global environment conservation related to such technologies.</td>
<td>about 30,000,00 yen in FY 1996</td>
<td>3 themes</td>
<td>RITE (Note b.)</td>
</tr>
<tr>
<td>Global Environment</td>
<td>(Basic research) Basic research on conservation and improvement of the global environment.</td>
<td>about 24,000,000 yen in FY 1996</td>
<td>1 theme</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Practical research concerning the production, generation and use of oil-alternative energy (excluding electric power generation technologies) which contributes to the conservation and improvement of the global environment.</td>
<td>about 30,000,00 yen in FY 1996</td>
<td>3 themes</td>
<td></td>
</tr>
</tbody>
</table>

(Note a. Materials and Energy area
International Joint Research Division, Industrial Technology Department
New Energy and Industrial Technology Development Organization (NEDO)
Address : PO Box 1151. 29F. Sunshine 60 Bldg. 3-1-1 Higashi-Ikebukuro, Toshima-ku, Tokyo, 170 Japan
Phone No. : 81-3-3987-9357
Telefax No. : 81-3-3981-1536

Note b. Global environment area
Research Proposals Reception Section, Research Planning Department
Research Institute of Innovative Technology for the Earth (RITE)
Address : 9-2 Kizugawadai Kizu-cho Soraku-gun, Kyoto, 619-02 Japan
Phone No. : 81-774-75-2302
Telefax No. : 81-774-75-2314

Please be informed that the amount of each grant and the number of themes to be adopted may be changed, and that this grant program is subject to government budget approval. A research team may submit an application a maximum of two times for a grant on the same subject.

The application period is from January 18, 1996 to April 18, 1996.
No applications will be accepted later than April 18th.
ATTENTION: If there are some discrepancies in a submitted application, for example, it does not follow the Application Guidebook or the research contents are different from the proposed research area, it will be considered invalid.
The expected experience and qualifications are essential for the position. The successful candidate is expected to lead and organize a modern histocompatibility laboratory, including DNA Typing Technology for kidney and other organ transplants and related research. It is also expected that the candidate will undertake teaching of medical students in the College, which follows the problem-based curriculum.

A good salary and benefits will be offered to the selected candidate which includes 60 days paid leave with air tickets to country of recruitment annually, free health service, housing and education allowance for the candidate's children. There is no income tax in the State of Bahrain and the country enjoys a pleasant sunny and warm climate most of the year.

Applications with detailed curriculum vitae together with names, addresses, telephone and fax numbers of four referees should be mailed or faxed to: Prof George Abouna, Dean, College of Medicine & Medical Sciences, Arabian Gulf University, P.O. Box 22979, Manama, Bahrain. Fax: (973) 230730, Tel: (973) 452877

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The College of Medicine & Medical Sciences of Arabian Gulf University, Bahrain is seeking to recruit an Academic Immunologist with special experience in histocompatibility techniques.

The academic rank is either Assistant or Associate Professor in accordance with the candidate’s qualifications, experience and current status. The successful candidate is expected to lead and organize a modern histocompatibility laboratory, including DNA Typing Technology for kidney and other organ transplants and related research. It is also expected that the candidate will undertake teaching of medical students in the College, which follows the problem-based curriculum.

A good salary and benefits will be offered to the selected candidate which includes 60 days paid leave with air tickets to country of recruitment annually, free health service, housing and education allowance for the candidate’s children. There is no income tax in the State of Bahrain and the country enjoys a pleasant sunny and warm climate most of the year.

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School of Medicine

Applicants should have a PhD or medical degree with specialization in Respiratory or Gastrointestinal Physiology. Teaching experience at lecturer level an asset.

**SENIOR LECTURER/LECTURER IN BIOCHEMISTRY/MOLECULAR BIOLOGY**  
Department of Biochemistry

Applicants should have a PhD in Biochemistry/Molecular Biology with teaching and research experience.

**ANNUAL SALARY RANGES:** (Medical) Professor TT$152,552 - TT$172,132; Lecturer TT$56,928 - TT$84,360 (B) - TT$111,228; Assistant Lecturer TT$70,080 - TT$74,496. Plus an Institutional Allowance ranging from 10% to 50% of basic salary depending on post. (Non-medical) Senior Lecturer TT$102,512 - TT$122,184 (B) - TT$126,600; Lecturer TT$73,632 - TT$86,880 (B) - TT$105,456. Regional Allowance at 30% of basic salary. Passages, Pension, Housing Allowance, Study, Travel and Book Grants. Applications naming three referees and detailing qualifications and experience should be sent to the Registrar, The University of the West Indies, St Augustine, Trinidad as soon as possible. Further particulars will be sent to all applicants and are also available from the Appointments Department, Association of Commonwealth Universities, 36 Gordon Square, London WC1H 0PF, UK (tel. 0171 387 8572 ext. 206; fax 0171 813 3055; email appts@acu.ac.uk).
POSTDOCTORAL FELLOW/RESEARCH FELLOW

Available April 1996 for recent graduates with Ph.D. in cell biology or molecular biology interested in malignant transformation and cellular differentiation. Expertise in molecular genetics, biochemistry, or protein chemistry desirable. Send curriculum vitae and names of three references to: Mark A. Israel, PIRS Graduate Program in Developmental Biology and Department of Neurosurgery, Box 0520, University of California, San Francisco (UCSF), 513 Parnassus Avenue, San Francisco, CA 94143. Email: israel@cg.ucsf.edu. UCSF is an Equal Opportunity/Affirmative Action Employer.

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Available immediately for a well-funded program to study cell growth and signal transduction in new class of lipid second messengers. Candidates should have background in molecular biology, signal transduction, or protein purification. Please send curriculum vitae and three letters of recommendation to: Dr. Sarah Spiegel, Department of Biochemistry and Molecular Biology, Georgetown University Medical Center, 355 Basic Science Building, 3900 Reservoir Road, NW, Washington, DC 20007. Telephone: 202-687-1452; FAX: 202-687-0260; Email: spiegel@biochem1. basic-sc.georgetown.edu. Affirmative Action/Equal Opportunity Employer.

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POSTDOCTORAL FELLOW

Study signal transduction in gap junctional communication regulated cell proliferation. Molecular biologist experienced in cloning, differential display, 2D-PAGE, and receptor biology. Send or FAX resume with names and telephone numbers of three references to: Shu-Chih Chen, Ph.D., Molecular Medicine, Northwest Hospital, 120 Northgate Plaza, Suite 230, Seattle, WA 98125. FAX: 206-368-3009; Email: schen@fred.hfcc.org.

SENIOR POSTDOCTORAL RESEARCHER

Ph.D. or equivalent degree with major course work in biological and biomedical science; must have strong laboratory experience and background in molecular and cellular biology; three years of postdoctoral laboratory experience. Project is molecular biology of tooth eruption. Salary will be commensurate with qualifications and experience. Application deadline is March 13, 1996, or until candidate is selected. Submit curriculum vitae and resume to: Dr. Gary E. Wise, Veterinary Anatomy and Cell Biology, School of Veterinary Medicine, Louisiana State University, Baton Rouge, LA 70803.

RESEARCH ASSOCIATE POSITION

Biology

Available immediately to study the molecular mechanism of dimorphism in Candida albicans. This position requires experience in protein purification, and working ability in molecular biology and microbiology. Prior experience in working with graduate students is helpful. Salary according to experience. Please send curriculum vitae, summary of previous research, and three letters of reference to: Department of Biology, Fisk University, Nashville, TN 37028. Equal Opportunity Employer.

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