# PRODUCTS & MATERIALS

sciences, medical research, chemical and pollution analysis, and microelectronics. It includes an interface that allows its use with any image processing software, whether IBM-compatible or Macintosh. Kontron Elektronik. For information call 800-KONTRON or circle 142 on the reader service card.

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HEAD DEPARTMENT OF PATHOLOGY

The University of Illinois at Chicago College of Med-icine invites applications for the position of **PROFES-SOR AND HEAD** of its Department of Pathology. The College of Medicine is among the nation's largest medical schools and part of Chicago's Westside Medical Center, a major medical complex, well-known for its large concentration of public and private health care and research facilities. The College has a 526-bed University Hospital and is building a state-of-the-art ambulatory care facility. The Department has a large, accredited residency pro-gram in anatomic and clinical pathology. The Department participates significantly in the undergraduate medical and dental curricula, and has an active graduate program leading to M.Sc. and Ph.D. degrees.

Candidates should have an M.D. and/or a Ph.D. with a proven track record in research. Candidates should have the ability to administer a comprehensive academic and clinical program. Candidates should also be experienced with academic training. Interested individuals should write to:

R. John Solaro, Ph.D. Chair, Search Committee for Head of Pathology Professor and Head, Department of Physiology and Biophysics

University of Illinois at Chicago College of Medicine 835 South Wolcott Avenue (M/C 901) Chicago, IL 60612-7342

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The Department of Industrial and Physical Pharmacy wishes to strengthen its Industrial Pharmacy program in order to meet the demands for increased knowledge and education in this important area. Applications are invited for a tenured position at the **ASSOCIATE PROFES**-SOR or PROFESSOR level. Candidates should hold a Ph.D. in pharmaceutical sciences or related area and have extensive experience in the pharmaceutical industry. Successful candidates will be expected to establish a strong research and teaching program in industrial pharmacy. Applicants should submit a curriculum vitae, a detailed description of research plans, and three reference letters to: Dr. S. R. Byrn, Head, Department of Industrial and Physical Pharmacy, Purdue University, West Lafayette, IN 47907-1336. Screening of applications will begin on June 1 and continue until the position is filled. Purdue University is an Equal Opportunity/Equal Access University. Minority and women scientists are especially encouraged to apply.

#### SENIOR FACULTY POSITION IN BIOMEDICAL ENGINEERING

The College of Engineering at UC Davis invites appli-cations for a **TENURED FACULTY** position in biomedical engineering. A Ph.D. in biomedical engineering or related discipline is required. Teaching and research interests in biochemical/biotechnology, bioinformatics and computational molecular biology, biomedical imaging, biomaterials, or soft tissue mechanics are sought. Applicants should forward a résumé and summary of teaching and research plans, plus names of three references to: James F. Shackelford, Associate Dean, College of Engineering, University of California, Davis, CA 95616-5294 by July 15, 1997. The position will remain open until filled. (http://www.engr.ucdavis.edu). The University of California is an Affirmative Action/Equal Opportunity Employer.

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### POSITIONS OPEN

#### FACULTY POSITIONS IN MOLECULAR PATHOLOGY

The Department of Pathology in the UC Irvine College of Medicine is seeking to fill two TEN-URE-TRACK or TENURE-LEVEL POSI-TIONS in the Division of Diagnostic/Research Molecular Pathology. The Department of Pathology is making a major commitment to the expansion of its Molecular Pathology program in sup-port of clinical activities at the UCI Medical Center, the (NCI-designated) UCI Clinical Cancer Center, and UCI-affiliated medical canters in Southern California. Newly designed laboratory space will house the clinical and developmental molecular pathology activities. Candidates should hold a Ph.D. and/or M.D. degree, and have demonstrated expertise in clinical molecular pathology. Board-certification or eligibility in one or more of the following is highly desirable: pathol-ogy; molecular pathology; clinical molecular ge-netics. In addition, applicants should have an established, independent research program in a relevant area of biomedicine.

Interested applicants should send a curriculum vitae, the names of three references, and a brief statement of clinical expertise and research interests to: Michael E. Selsted, M.D., Ph.D., Chair, Molecular Pathology Search Committee, De-partment of Pathology, College of Medicine, University of California, Irvine, CA 92697 4800. The University of California is an Equal Opportunity Employer.

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#### FACULTY POSITION

The Department of Biology at Viterbo College invites applications for a **TENURE-TRACK POSITION**: Ph.D. required. The successful candidate should have experience in teaching microbiology, immunology and molecular biology. Application, including curriculum vitae, three letters of reference, and copies of transcripts should be sent to: Dr. Linda Malick, Chair, Department of Biology, Viterbo College, 815 South 9th Street, La Crosse, WI 54601. Equal Opportunity/Affirmative Action Employer.

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Minimum requirements include an M.D. or D.V.M./V.M.D. degree, Board Certification in Anatomic Pathology or equivalent, and proficiency in the interpretation of immunohistochemistry and molecular pathology. Research training with a Ph.D. and experience in experimental and/or ultrastructural pathology are highly desirable. Job Code SCIO259

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To be a part of our dynamic team, we require an M.D. with board certification in Oncology (or B.C./B.E.), Molecular Oncology preferred, with a minimum of 2 years experience designing and implementing clinical studies within an industrial/pharmaceutical setting. Significant clinical study design and implementation experience within an academic or institution setting will also be considered. Job Code JOONC

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To be eligible, you must have received your Ph.D. between I January and 31 December 1996. Your thesis work must have been in the field of molecular biology. To enter, you must submit a 1,000 word essay that describes your thesis work and places it in perspective with regard to the field of molecular biology. The essay may be submitted in either English, French, German, Spanish, Japanese, or Chinese (Mandarin).

The closing date for entries is 30 June 1997. All prizes will be presented in Sweden in December 1997. Full details and the required entry form can be obtained from:

- the administrator of the Award Committee at the address below
- within the Science homepage at http://www.aaas.org/science/ prize.htm
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The Award Committee Pharmacia Biotech & Science Prize for Young Scientists

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## Tenure-Track Positions Assistant Professor Equivalent

#### Signal Transduction in Cancer

The Cell and Cancer Biology Department of the Medicine Branch, Division of Clinical Sciences at the NCI is seeking candidates to pursue an independent intramural research program in the area of signal transduction as it relates to cell cycle regulation, transformation, tumorigenesis, and/or drug action. Candidates must have a PhD and/or MD as well as advanced training in molecular biology and cellular biochemistry. The Medicine Branch is composed of laboratories which pursue independent but cooperative approaches to the investigation of cancer through molecular and cellular biology, genetics, immunology and transplantation, and molecular therapeutics. Consonant with the goals of the Division, candidates should have a commitment to translating basic findings to address important questions in clinical cancer diagnosis and treatment. Send applications postmarked by June 1, 1997 to: Dr. Kathleen Kelly, Medicine Branch (OE-126), NCI, Building 10, Room 13S241, 10 CENTER DR MSC 1906, BETHESDA MD 20892-1906.

Cellular Neurophysiology and/or Cellular Neuropharmacology A position is available in the NIAAA, Laboratory of Molecular and Cellular Neurobiology (Chief, Dr. Forrest F. Weight) to develop an independent research program investigating the cellular basis of alcohol effects in the nervous system. Expertise in electrophysiological techniques for investigating the cellular physiology and/or cellular pharmacology of membrane ion channels in mammalian neurons is required. Applicants should have a doctoral degree, several years of relevant postdoctoral experience, and be a U.S. citizen or permanent resident. The deadline for receipt of applications is May 1, 1997. Send to: Kathleen Hanratty, LMCN Search Committee (OE-126), NIAAA, 31 CENTER DR MSC 2088, BETHESDA MD 20892-2088.

#### To Apply

Please send a cover letter, *curriculum vitae*, bibliography, a one- to twopage statement of research interests and goals, and selected publications to the address listed with each position. In addition, please arrange to have letters of recommendation sent from three references who can provide an evaluation of your professional qualifications.

#### New WWW Site

Visit the new NIH Office of Education web site listing tenure-track positions, postdoctoral positions, and much more. Converse by e-mail with NIH investigators and apply electronically. Find us at http://helix.nih.gov:8001/oe



## National Institutes Of Health

Office Of Education

http://helix.nih.gov:8001/0e The NIH is an Equal Opportunity Employer

## EMBARK ON A CAREER OF SCIENTIFIC DISCOVERY.

At Parke-Davis Pharmaceutical Research, we offer the optimum environment for professional freedom, scientific achievement and team support.

### POSTDOCTORAL RESEARCH FELLOWSHIP VASCULAR AND CARDIAC DISEASES

This two year position will study the role of cholesteryl ester enrichment on monocytemacrophage differentiation and expression of pro-atherogenic molecules. The major objectives of the project are to: characterize the expression of known proinflammatory molecules by macrophages under conditions of cholesteryl ester enrichment; identify novel pro-atherogenic gene products using differential display; and elucidate the signal transduction mechanisms for novel and known molecules.

A recent Ph.D. with a strong background in cell biology and molecular techniques is required. Cell culture, Western and Northern blotting, RT-PCR, immunohistochemistry and in situ hybridization experience is essential. Job Code: LJB3165

### GENOMICS GROUP LEADER

This individual will play an important role in shaping the future direction of our Genomics Group within the Molecular Biology Department of Preclinical Therapeutics. An extensive skillbase in molecular and cell biology and knowledge in robotics and bioinformatics with managerial experience to lead a multidisciplinary team are required.

Your team will support internal drug discovery programs, establish new state-of-the-art technologies (e.g. array/proteome expression, etc.) to discover novel genes, monitor gene expression in normal/disease states and evaluate/establish projects with external collaborators to discover disease genes.

Strategic planning and the design of an integrated approach to genomics will require you to be able to handle large quantities of information, to stay abreast and remain on the forefront of this fastmoving field. You will need to convey your expertise and advise colleagues primarily throughout preclinical research as well as in toxicology and clinical development.

Applicants must have a Ph.D. with 8-10 years' postdoctoral experience (2 years' working with genomics) as well as a good understanding of the pharmaceutical drug discovery process. Excellent interpersonal, management and communication skills are required. Job Code: CJM97093

Join the future of new technological breakthroughs and explore all the possibilities of science at Parke-Davis including competitive salaries, benefits and career growth potential. For consideration, mail, fax or e-mail a resume\* and cover



letter, indicating the Job Code of interest, to: Parke-Davis Pharmaceutical Research, Human Resources Department, 2800 Plymouth Road, Ann Arbor, MI 48105. Fax: (313) 998-3394.

E-mail:resume@aa.wl.com.

\*Submit resume on laser-quality white paper, with legible 10 point or larger type, and avoid boldface, italics, borders, etc.



#### POSITIONS OPEN

ACADEMIC POSTS—Ross University invites applications for FACULTY appointments to the following departments in its School of Medicine:

Physiology
Neuroscience
Anatomy
Pathology
Biochemistry

Beautiful tropical location in the Caribbean. Excellent tax benefits. Send curriculum vitae to: Evan Angelekos, M.D., Ph.D., Provost, Ross University, 460 West 34th Street, New York NY 10001.

#### CELL BIOLOGIST/NEUROPHYSIOLOGIST UNIVERSITY OF FLORIDA

The University of Florida College of Dentistry and the University of Florida Brain Institute invite applications for a tenure-track position at the level of ASSISTANT or ASSOCIATE PROFESSOR. The applicant should have a background or strong interest in sensory neurobi-ology and be willing to participate in multidisciplinary grants and other collaborative efforts to study the pathophysiology of chronic pain. The competitive candidate will have demonstrated skills in electrophysiological preparations (e.g., dissociated cell, organotypic slice, primary culture) or applicable molecular/cellular biological methods. It is expected that the applicant will have established, or will develop, an externally-funded research program and contribute to teaching in the Colleges of Dentistry and/or Medicine. Candidates should have a Ph.D. and at least two years of postdoctoral or equivalent experience. Competitive salary support and start-up funds will be provided.

Applications, including a curriculum vitae, statement of research interests, representative publications, and list of at least three references should be sent to: Dr. Brian Cooper, Committee Chairman, Department of Oral and Maxillofacial Surgery, University of Florida, College of Dentistry, Box 100416 JHMHC, Gainesville, FL 32610. Applications will not be considered after August 1, 1997. The University of Florida is an Equal Opportunity/Affirmative Action Institution. The selection process will be conducted under the provisions of Florida's "Government in the Sunshine" and Public Records laws. Search applications, résunds, and other documents related to the search will be available for public inspection.

#### INSTRUCTOR-MOLECULAR DIAGNOSTICS

The Center for Cancer Risk Analysis of Massachusetts General Hospital (MGH) is a leader in the field of mutational analysis, with particular reference to genetic predisposition to breast cancer. A position is available at the level of **INSTRUCTOR** at Harvard Medical School, with the responsibility to lead a translational research group. Individual with a Ph.D. or M.D. should have a strong background in genetics, with experience in automated sequencing analysis and molecular biology. Other skills needed include data management and leadership ability. The candidate will interact extensively with basic research efforts at the MGH Cancer Center and with the developing coordinated program in cancer genetics at Harvard hospitals.

Please send curriculum vitae, covering letter stating research interests and three letters of recommendation to: Daniel Haber, M.D. Ph.D., Director, MGH Center for Cancer Risk Analysis, MGH Cancer Center, CNY7, Building 149, Charlestown, MA 02129. Closing date July 1, 1997.

Massachusetts General Hospital is an Equal Opportunity Employer.

#### ASSISTANT PROFESSOR

The Department of Physiology at the Ponce School of Medicine invites applications for a faculty position at the level of **ASSISTANT PROFESSOR**. We are seeking individuals with a Ph.D. or equivalent, and postdoctoral experience. The successful candidate will be expected to participate in the medical and graduate student programs; and to develop an independent research program. Review of candidates will begin immediately. Send curriculum vitae, a statement of goals, and names and addresses of three references to: Dr. Howard Mass, Chairman, Physiology Department, Ponce School of Medicine, P.O. Box 7004, Ponce, PR 00732.

#### POSITIONS OPEN

#### ASSISTANT PROFESSOR TULANE UNIVERSITY MEDICAL SCHOOL

The Department of Microbiology and Immunology invites applications for a tenure-track position at the AS-SISTANT PROFESSOR level from those having interests and experience in molecular aspects of microbial pathogenesis. Minimum requirements for the position include a Ph.D. or M.D. and no less than two years of postdoctoral experience. Establishment of an independent research program funded by extramural support is expected, as is participation in the education of both medical and graduate students. All major disciplines are represented within the Department, and unique opportunities exist for collaborative and interdisciplinary research. It is expected that the position will be filled on or before October 1, 1997. The search will remain open until a suitable candidate is found. To apply send a curriculum vitae, a brief overview of present and future research directions, and the names, addresses and telephone numbers of three references to: Faculty Search Committee, Department of Microbiology and Immunology, Tulane University School of Medicine, 1430 Tulane Av-enue, New Orleans, LA 70112. Applications from women and ethnic minorities are strongly encouraged. Tulane University is an Equal Opportunity/Affirmative Action Employer.

#### WAYNE STATE UNIVERSITY SCHOOL OF MEDICINE ASSOCIATE/FULL PROFESSOR

The Departments of Physiology and of Psychiatry and Behavioral Neurosciences have an opening for a joint appointment at the rank of **ASSOCIATE/FULL PRO-FESSOR** with tenure. We are seeking candidates with an established research record on the cellular/molecular basis of synaptic transmission, to complement a growing inter-departmental neuroscience group. The successful candidate will be expected to continue a strong, extramurally-funded, research program and assume some teaching responsibilities within the Medical School. Laboratory space will be located in Gordon H. Scott Hall which houses basic research for the Medical School, including Physiology and Psychiatry and Behavioral Neurosciences. Significant space and a generous start-up package will be available to the successful candidate. Review of applica-tions will begin July 1, 1997 and will continue until a suitable candidate is recruited. Applicants should send a curriculum vitae, research plan, and the names of three references to: Dr. Dixon Woodbury, Search Committee Chair, Department of Physiology, Wayne State University, 540 East Canfield, Detroit, MI 48201. Wayne State University-People working together for quality service. All buildings, structures and vehicles at WSU are smoke-free. WSU is an Equal Opportunity/Affirmative Action Employer.

#### FACULTY POSITIONS DEVELOPMENTAL BIOLOGY AND NEUROBIOLOGY

Morehouse College is inviting applications for two tenure-track positions in developmental biology and neurobiology at the **ASSISTANT PROFESSOR** level in the Department of Biology. Applicants should have a Ph.D., postdoctoral experience and a commitment to teaching and research in an undergraduate setting. Please send a full curriculum vitae and a cover letter by May 30, 1997 describing research and teaching interests and the names of three references to:

> J. K. Haynes, Ph.D. Chair, Department of Biology Morehouse College 830 Westview Drive S.W. Atlanta, GA 30314

Morehouse College is an Equal Opportunity Employer.

#### CANCER RESEARCH

Gifted SCIENTISTS are sought to participate in the exploration and potential commercialization of advanced cancer therapies based on immunologic, anti-angiogenic, and other noncytotoxic mechanisms. Candidates should have a Ph.D. or M.D. with a strong research orientation and an exceptional record of academic and/or industrial accomplishment in a relevant discipline, but specific experience in cancer research, while preferred, is not essential. Candidates should send curriculum vitae to: Paul Cohen, 120 West 45th Street, 39th Floor, New York, NY 10036.

#### RESEARCH STATION DIRECTOR USDA FOREST SERVICE

The Forest Service is seeking applicants for the position of **DIRECTOR**, North Central Forest Experiment Station, St. Paul, Minnesota, beginning salary \$97,000. The Director is a member of the Federal Senior Executive Service and of the Agency's Executive Team. He or she is responsible for the leadership and administration of large and complex research programs related to development, protection, and use of the Nation's tim-ber, range, wildlife, water, air, and recreation renewable resources and forest inventory programs in eight states in the northcentral U.S. The Station Director is also responsible for leadership and coordination in the forestry scientific community and administers a cooperative aid, grant, and contract program. For applications and additional information contact: Denise Howell-Parker, 703-235-8102, ext. 3051. Applications must be re-ceived by May 12, 1997. The Forest Service is an Equal Opportunity Employer.

#### NEUROSCIENCE

ASSISTANT/ASSOCIATE PROFESSOR—The St. George's University School of Medicine (SGUSOM.), situated on the beautiful island of Grenada in the West Indies, invites applications to fill this faculty position. Applicants should have a Ph.D. or M.D. degree with relevant teaching experience. As a university we are committed to excellence in medical education and seek to employ individuals with good teaching credentials. Salary is in \$US and in line with that of American medical schools. Faculty who are planning early retirement are encouraged to apply. Applicants should submit their curriculum vitae to: Mrs. Florient Johnson, Faculty Recruitment Coordinator, SGUSOM., P.O. Box 7, St. George's, Grenada.W.I. Telephone/FAX: 809-444-3618. Closing date July 31, 1997.

#### TWO POSITIONS IN IMMUNOLOGY

Building on strength in immunology, The University of Iowa invites applications for two IMMUNOLO-GISTS in the tenure track. Successful applicants will be expected to implement strong extramutally-funded re-search programs in either (1) signal transduction, or (2) immunologic mechanisms of disease. The selected applicants will receive primary appointments in the Department of Pathology, with appropriate secondary appointments in other departments and programs including the Interdisciplinary Immunology Program. Contributions to the activities and teaching duties of the Department of Pathology and the Immunology Program are expected. The Immunology community at the University of Iowa is composed of more than thirty basic and clinical scientists working in a collaborative and supportive environment. The Interdisciplinary Immunology Program is active in graduate and post-graduate training, and presently overgrants. Applicants should have an M.D., Ph.D., or equivalent degree, postdoctoral experience, and record of productivity. Applications for any rank are welcome. Salary will be commensurate with qualifications and experience. Applicants should submit a curriculum vitae, research plans, and the names of three references to:

#### Dr. Thomas Waldschmidt Chair, Search Committee Department of Pathology, 127 ML University of Iowa College of Medicine Iowa City, IA 52242

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

#### BANKAMERICA VENTURES FOSTER CITY, NORTHERN CALIFORNIA ASSOCIATE POSITION The Health Care Group

Position requires a graduate degree and three to five years of work experience in the biotechnology industry. Bank of America offers competitive compensation, incentive pay and outstanding benefits, including stock options. Please apply in writing enclosing your résumé to: Human Resources-TNP, Bank of America, 231 South LaSalle Street, 13th Floor, Chicago, IL 60697. Bank of America is an Equal Opportunity Employer.



The National Institutes of Health has introduced a new web site. Now, the latest news about clinical and research training opportunities at NIH can be accessed by visiting us at http://helix.nih.gov:8001/oe/

At the site, you can quickly obtain information regarding clinical and postdoctoral training. Review the NIH tenure-track openings. Take a look at the NIH Postdoctoral Research Fellowship Opportunities Catalog which chronicles research being conducted in all NIH laboratories. You can even apply electronically for positions. All from the convenience of your keyboard.

Plus, the web site links to all NIH institute and laboratory home pages, provides a calendar of events, and offers links to many other areas.

We used to ask you to call us or send your curriculum vitae. Now, the best way to find out about world class opportunities at NIH is through the world wide web.

## National Institutes Of Health

Office Of Education http://helix.nih.gov:8001/oe/ The NIH is an Equal Opportunity Employer



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### **Hoechst Marion Roussel**

A member of the Hoechst Group Hoechst

A global leader in the pharmaceutical industry

This is a superb opportunity for a creative scientist to lead the way towards a breakthrough effort in researching CNS diseases at Hoechst Marion Roussel, one of the world's largest global pharmaceutical companies.

The position requires a Ph.D. in Molecular or Cell Biology, as well as broad expertise in CNS-related molecular biology techniques involving cloning, expression in neuronal cell lines and gene discovery. Pharmaceutical R&D experience in a global environment is essential, pharmacology background is advantageous. Must have a successful record in idea generation and rapid assay development. Experience managing, developing and motivating teams is a must, as are excellent oral/written communication skills.

For this Bridgewater, NJ-based opportunity located on a 112 acre campus, we offer a highly competitive salary and industry leading comprehensive benefits package. For consideration, please forward resume including salary history/requirements to: Staffing Manager, Human Resources, Mail Drop D-303D, Hoechst Marion Roussel, Inc., Route 202-206, P.O. Box 6800, Bridgewater, NJ 08807-0800, U.S.A. An Affirmative Action Employer M/F/D/V. NO PHONE CALLS, PLEASE! We will contact directly only those candidates who meet our criteria.

#### POSITIONS OPEN

#### INSECT PATHOLOGIST

DuPont Agricultural Products in Newark, Delaware, is seeking a highly motivated and creative individual to join our multidisciplinary Insecticide Discovery Team. The main responsibilities of this person will be leadership of an insectary which includes the capability of producing large numbers of consistent, high quality and disease-free insects, support of a significant biological screening program, and research focused on the mass production of baculoviruses *in vivo*. This person should be able to work and communicate effectively in a diverse group of biologists, entomologists, chemists, biochemists, and molecular biologists.

The successful candidate must have a Ph.D. or equivalent experience in insect pathology and a proven track record of achievement in this discipline. Experience in the mass rearing of insects is highly desirable.

DuPont offers a highly competitive salary, excellent benefits, a challenging work environment, and opportunities for advancement. Qualified candidates should send their résumés and a list of references to:

> Stine-Haskell Research Center Attention Human Resources, AGGT-23 P.O. Box 30 Newark, DE 19714

DuPont is an Equal Opportunity Employer.

PHYSICIST—Provide medical physics support for the Department of Radiation Oncology, Nuclear Medicine and Diagnostic Radiology. Duties include equipment calibration, quality control, radiation surveys, shielding designs, image analysis, clinical dosimetry of external beams, patient set-up and computer treatment planning. Must have a Ph.D. in biomedical engineering and two years of experience as junior physicist including experience with the above-described duties. \$57,500 per year; 40 hours per week; 8:30 am-4:30 pm; job is in Chesapeake, Virginia. Mail two résumés with a copy of advertisement to: VEC, VA6041475, 5145 East Virginia Beach Boulevard, Norfolk, VA 23502.

#### RESEARCH POSITION MAGNETIC RESONANCE IMAGING FACILITY UNIVERSITY OF NOTRE DAME

The Department of Physics invites applications from persons with a Ph.D. in physics, chemistry or biology for a RESEARCH POSITION in magnetic resonance microimaging. Specific research includes measurement of flow and coarsening in suspensions, liquid foams and polyurethane foams, as well as biological imaging. The successful applicant will work with researchers from biology, biochemistry, chemical engineering and physics, and is encouraged to conduct independent research within the scope of the facility. A background in MRI and knowledge in techniques required for microimaging, fast 2d and 3d acquisitions are required. Experience either with flow visualization or functional MRI of brain activity is desirable. Familiarity with IDL and pulse sequence programming on Bruker DMX systems is useful. Applicants should submit curriculum vitae including previous salaries, and names of three references to: Dr. James A. Glazier, Department of Physics, University of Notre Dame, Notre Dame, IN 46556. Salary and level of appointment will depend on the experience of the candidate. Review of applications will begin immediately and will continue until the position is filled.

#### VANDERBILT UNIVERSITY POSTDOCTORAL POSITION WOUND HEALING

Available to study the age-related mechanisms of impaired wound healing in laboratory animals and derivative, *in vitro* systems. Emphasis is placed on the role of growth factors and connective tissue macromolecules. Control of healing by pharmacologic agents and gene therapy is under study. Background in molecular and cellular biology is essential. Forward curriculum vitae and names and contact numbers of three references to: Jeffrey M. Davidson, Ph.D., Department of Pathology C-3321 MCN, Vanderbilt University School of Medicine, Nashville, TN 37232-2561. FAX: 615-327-5393. Email: davidsjm@ctrvax.vanderbilt.edu.

#### POSITIONS OPEN

#### POSTDOCTORAL RESEARCH FELLOW

Position available immediately in the Wellman Laboratories of Photomedicine at Massachusetts General Hospital, Harvard Medical School, for a **POSTDOC-TORAL RESEARCH FELLOW**. The Research Fellow will join a team of investigators studying the effects of mechanical waves on the cell membrane and function. The aim of the research is to develop methods for topical drug delivery. Candidates must have experience in membrane biology or cell biology and demonstrated ability to work independently. Salary commensurate with experience and qualifications.

Interested applicants should send curriculum vitae to: Apostolos Doukas, Ph.D.

Massachusetts General Hospital WEL 224 50 Blossom Street Boston, MA 02114 Email: doukas@helix.mgh.harvard.edu

Massachusetts General Hospital and Harvard Medical School are Equal Opportunity/Affirmative Action Employers. Applications from women, minorities, disabled, and veterans are encouraged. We are especially interested in receiving applications from underrepresented minorities.

#### BRIGHAM AND WOMEN'S HOSPITAL HARVARD MEDICAL SCHOOL

**POSTDOCTORAL POSITION** available immediately to characterize intracellular transport processes in the hepatocyte, with a focus on the identification, cloning and regulation of transport proteins involved in glucuronidation. Relevance to hepatic microsomal drug/xenobiotic metabolism.

A Ph.D. and experience in molecular/cell biology are required. Send curriculum vitae and statement of research experience to: John Gollan, M.D., Ph.D., Chief, Division of Gastroenterology, Brigham and Women's Hospital, 75 Francis Street, Boston, MA 02115. POSTDOCTORAL POSITION available immedi-

**PÔSTDOCTORAL POŚITION** available immediately to investigate mechanisms of bile salt mediated cytotoxicity in hepatocytes and enterocytes, using a variety of physical chemical approaches. Focus on alterations in divalent cation transport/signaling, in model systems, isolated organelles and intact hepatocytes.

Contact: Joanne Donovan, M.D., Ph.D., West Roxbury VAMC, 1400 VFW Parkway, Boston, MA 02132. FAX: 617-363-5549. Affiliated with Harvard Medical School.

Affirmative Action/Equal Opportunity Employers

#### SOFTWARE ENGINEER

Genetics Computer Group, Inc. is seeking motivated individuals to meet the bioinformatic needs of the 21st century. We have a number of positions open for experienced **SOFTWARE ENGINEERS** who will create and incorporate code into our software package which analyzes DNA and protein sequences. We are looking for people with backgrounds in computational molecular biology and/or bioinformatics and three years of professional experience in C programming and UNIX. Experience considered a plus includes: knowledge of Open VMS operating systems, X Windows/Motif, Fortran, HTML, Perl, and relational or object oriented databases. The successful candidate will have a proven track record of product development. Genetics Computer Group offers a generous benefits package and an exceptional work environment. Please submit résumés with references to:

Genetics Computer Group, Inc. Software Engineer Applicant 575 Science Drive Madison, WI 53711

**POSTDOCTORAL POSITIONS** at Emory University: Postdoctoral positions available to study mechanisms of signal transduction and interactions between coexisting adrenergic receptor subtypes. Contact: **Dr. Kenneth P. Minneman, Department of Pharmacology, Emory University, Atlanta, GA 30322.** 

Email: kminneman@pharm.emory.edu http://www.emory.edu/PHARMACOLOGY/ MINNEMAN

#### POSITIONS OPEN

#### WILDLIFE TOXICOLOGIST

A 12-month, tenure-track faculty position in the Department of Zoology, 25% assigned to teaching, 75% assigned to research in the Cooperative Wildlife Research Laboratory. ASSISTANT/ASSOCIATE PROFES-SOR with research capabilities to assess distribution, effects, and fate of contaminants in terrestrial ecosystems. Minimum qualifications: (1) Ph.D. in wildlife toxicology, ecology, zoology, or a closely related area and demonstrated research experience and graduate training in area of specialization; (2) Demonstrated success, or evidence of strong potential to obtain external funding to support research specialization and graduate studies associated with the mission of the Cooperative Wildlife Research Laboratory; (3) A publication record and scholarly activities commensurate with experience. Detailed position description and other application information sent upon request. Starting date January 1, 1998. Application sent upon line August 15, 1997, or until filled. To apply, send a cover letter highlighting qualifications specifically for the position described, and a statement of research and teaching interests and capabilities; a curriculum vitae; reprints of representative papers and grants; all undergraduate and graduate transcripts; and three letters of recommendation gladuate transcripts, and there fetters of recommendation plus names, addresses, and telephone numbers of two additional persons to: Dr. Alan Woolf, Director, Coop-erative Wildlife Research Laboratory, Southern Illi-nois University at Carbondale, Carbondale, IL 62901-6504. Telephone: 618-536-7766. Southern Illinois University at Carbondale is an Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITION** available to study the MSP-based mechanism of amoeboid cell motility in nematode sperm (see *Cell* **84**: 105–114 and accompanying mini-review). NIH-funded project provides an opportunity to use multiple approaches, centered on reconstitution of motility *in vitro*, to identify the components of the locomotory apparatus and determine how they produce movement. Experience in molecular biology, biochemistry, or biophysics of motile systems desirable. Send curriculum vitae and names of three references to: Thomas M. Roberts, Department of Biological Science, Florida State University, Tallahassee, FL 32306. Email: roberts@bio.fsu.edu. *Florida State University is an Affirmative Action/Equal Opportunity Employer.* 

A POSTDOCTORAL RESEARCH position is immediately available to study the molecular mechanisms regulating estrogen induced proliferation of breast cancer cells. Studies will focus on estrogen receptor interactions with transcriptional regulators and on induction of estrogen responsive mitogens. A strong background in steroid receptor molecular biology and physiology and hormonal regulation of proliferative and differentiated function is desirable. Please send curriculum vitae, summary of research experience, and names of three references to: Dr. Richard Santen, Department of Medicine, University of Virginia School of Medicine, P.O. Box 334, Room 4023, Charlottesville, VA 22908. Email: rjs5y@virginia.edu.

POSTDOCTORAL TRAINING. Several positions are available in the laboratories of John H. Wilson and Theodore G. Wensel in the Department of Biochemistry at Baylor College of Medicine. Research topics include: gene targeting and genomic instability in mammalian cells; oligonucleotide-directed gene modification; regulation of G protein-mediated signal transduction; electron crystallography of signal transducing complexes. Area of Ph.D. training is less important than a strong record of research accomplishment. Apply to either Dr. Wilson or Dr. Wensel, Department of Biochemistry, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030. Baylor College of Medicine is an Equal Opportunity/Affirmative Action/Equal Access College.

**POSTDOCTORAL POSITION** available immediately to study the roles of free radicals in neuronal injury and degeneration. Ph.D. in molecular biology or neurochemistry. Experience in apoptosis would be helpful. Send curriculum vitae and references to: Dr. Danxia Liu, University of Texas Medical Branch 0653, Galveston, TX 77555. FAX: 409-747-2276. UTMB hires only individuals authorized to work in the U.S. UTMB is an Equal Opportunity/Affirmative Action Employer, Minorities/Females/Disabled/Veterans.



opening for a Project Leader for diagnostic test development.

This position requires a PhD or equivalent experience and familiarity with standard

Biochemistry, ELISA, Protein Purification and Antibody Production techniques and instrumentation.

Responsibilities will include the planning, organization and supervision of in vivo and in vitro experimental studies leading to the development, licensure and marketing of veterinary diagnostic kits products.

This is an opportunity to work with a team of dedicated professionals in a state-of-the-art facility. We will provide you with a competitive compensation and a full line of benefits. For immediate consideration, forward resume, including salary requirements to:

**Director Human Resources** Fort Dodge Animal Health **PO Box 518** Fort Dodge, IA 50501



EOE M/F/D/V



De Anza College is located in the heart of Silicon Valley in Cupertino, California. Many of De Anza's programs and student services have become models for other community colleges throughout the United States. Offering more than 2,000 course sections and 88 career and technical programs, De Anza is proud to be among the top three community colleges in the country in degrees awarded.

Applications are now being accepted for the following full-time, tenured instructors positions:

Biology Majors: Provide classroom and laboratory instruction. Areas of Instruction may include molecular and cellular biology, animal and plant biology and ecology. Job #97073.

Human Anatomy and Physiology: Provide classroom and laboratory instruction in areas that may include general biology and human anatomy and physiology as well as other areas common to the discipline. Job #97074.

First review date for all of the above positions will be May 16, 1997. Applications and complete job description may be obtained from:

**Employment Services** Foothill-De Anza Community College District 12345 El Monte Road

Los Altos Hills, California 94022 (415) 949-6217

Email: cms6438@mercury.fhda.com http://wwwfh.fhda.edu/district/hr/employment.html

TTY: (415) 949-5813

A resume may not be substituted for a completed District application.

AA/EOE

## The Science of Agricultural Genetics

#### **SENIOR RESEARCH ASSOCIATE -**MAIZE TRANSFORMATION PROJECT Grain Traits (Job #GT-712)

This position is an integral part of a project that generates maize transformants for the evaluation of genes important to intellectual property and product development in Grain Traits. The position will require experience in production and primary identification of transformants and in the assessment and development of appropriate transforma-tion and analysis technologies to meet technical and busi-ness objectives. The successful applicant must have at least four years of relevant research experience in maize trans-formation biology especially with regard to genotype-independent and high-throughput transformation. A demonstrated ability to conceive and complete projects independently is essential. Strong interpersonal skills will be required to develop collaborations both within Pioneer Hi-Bred's extensive research program and external public and private organizations. Preferred applicants have expe-rience in electronic report writing, statistical design and analysis, use of database(s) and experience in conducting field tests of transgenic plants. MS degree or equivalent experience in cell biology or a related field is prerequisite. This position is available immediately.

#### **RESEARCH ASSOCIATE -PLANT TRANSGENE ANALYSIS** Industrial Products (job #GT-713)

We seek a motivated individual to join a group focused or enhancing transgene stability and expression in maize and soybean seeds with the overall goal of producing crops having novel grain traits. Primary responsibilities for this position are biochemical and molecular biological analyses of transgenic plants. The position requires a MS degree in an area related to molecular biology and biochemistry or a BS and three years of directly relayed nucleon become and a sequired skills include plasmid construction, RT-PCR, nuclear run-off analysis, DNA sequencing and a thorough knowledge of plant transgene analysis. Preference will be given to candidates with experience in plant genetics.

#### **POST-DOCTORAL ASSOCIATE** Grain Traits (Job #GT-714)

A post-doctoral position is available to study mechanistic aspects of protein secretion in higher plant cells. In partic-ular, the project will focus on both the control of N-glycoular, the project will focus on both the control of N-glyco-sylation and glucocerebroside biosynthesis within the endoplasmic reticulum as control points for programmed cell death. A strong background in the molecular biology of higher plants (Arabidopsis and maize) is required. Experience in yeast genetics would also be advantageous. This position requires experience in both molecular biology and position requires experience in both molecular biology. and modern methods of analyzing protein interactions (eukaryotic recombinant protein expression, two hybrid sys-tems and phage display). Persons with either higher plant or yeast research backgrounds are encouraged to apply

#### **RESEARCH ASSOCIATE** -SOYBEAN TRANSFORMATION Grain Traits (Job #GT-715)

We seek a highly motivated and energetic individual to join a group devoted to the development of soybean transfor-mation methodology and the production of plants with novel traits. The successful candidate will be responsible for nover traits. The successful candidate will be responsible for planning, executing and documenting gene delivery and cell culture experiments and for the initial identification of transgenic plants. The position requires a person with strong organizational skills and the ability to focus on details. Ability to work in a team environment and to coordinate experi-mentation is essential. Preferred applicants have experience with cell culture, sterile technique, and a demonstrated capacity to record and report data. A Bachelor degree or equivalent in biology or a related field is required.

Pioneer offers an opportunity to interact among hundreds of scientists with diverse backgrounds. We offer competi-tive salaries and excellent, comprehensive benefits. Des Moines is a prospering heartland city that ranks well above the national averages in affordability and education. Our location provides a mix of beautiful open spaces and city life advantages. For confidential consideration send 3 copies of your resume and cover letter indicating job num-ber by May 16, 1997 to: Pioneer Hi-Bred International, Inc., Attn: PERSONNEL (Job #-----), P.O. Box 1004, Johnston, JA 50131-1004.

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#### POSITIONS OPEN

#### EDITORIAL

Growing international medical communications company has opportunity for individual with strong writing/editing skills and a sound understanding of the biological sciences. Position involves the development of projects ranging from promotional brochures to scientific journal articles. Related experience, a postgraduate degree, and foreign language capabilities are all highly desirable. FAX: 201-583-8409. Send résumé to:

GeoMed Global Communications, LLC Attn: Personnel Department 700 Plaza Drive Secaucus, NJ 07094

#### POSTDOCTORAL FELLOWSHIP BIOINFORMATICS OF TUBERCULOSIS South African National Bioinformatics Institute

Glaxo-Wellcome Action TB, South Africa/MRC— FUNDED POSITION. Background in applications of object or relational databases and/or microbial genome analysis. The candidate will be senior member of a team developing a novel, integrated, database system to research into the TB genome for understanding of its biology and drug target discovery. Ongoing projects include: relative expression analysis of human genes, microbial genome comparison and evolution, and genome and metabolic database development.

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Give availability, a curriculum vitae, three referees, and research interests to:

South African National Bioinformatics Institute

Private Bag 17 University of the Western Cape Bellville, 7535, South Africa Telephone: +27 21 959 3545 FAX: +27 21 959 2266 Email: winhide@sanbi.ac.za http://techno.sanbi.ac.za

#### ESTUARINE SCIENTIST POSITION, COASTAL AND WETLANDS PROCESSES

Texas Parks and Wildlife, Coastal Studies Program, Corpus Christi, Texas. SPECIALIST in coastal oceanography/wetlands geomorphology (Ph.D. preferred), four years of working experience. Analytical skills in computer modeling, remote sensing, or advanced statistics. To study estuarine freshwater inflow dynamics and conduct coastal monitoring. Requires solid knowledge of coastal physical/hydrologic processes and effects on estuarine esosystems; good communication skills. Salary \$40,668 per year. Contact: Dr. Warren Pulich Jr., Email: warren.pulich@tpwd.state.tx.us or Dr. Peter Eldridge, Email: peter.eldridge@tpwd.state.tx.us. Telephone: 512-912-7012. Closing Date: May 30, 1997.

**POSTDOCTORAL POSITION** available to study the interaction of the Lyme disease agent, *Borrelia burgdorferi*, with mammalian cell integrins. Ph.D. and an interest in microbial-host interaction required; must be a U.S. citizen or permanent resident. Send curriculum vitae, summary of research experience, and three reference letters to: Jenifer Coburn, Ph.D., Division of Rheumatology, New England Medical Center Box 406, 750 Washington Street, Boston, MA 02111. Equal Opportunity Employer.

**POSTDOCTORAL POSITION** available August 1, 1997 for research on the function of protein methyltransferases. Experience with mammalian cell culture and/or protein purification and characterization is required. Experience with HPLC and/or immunological techniques would be an asset. For consideration, send a curriculum vitae and names of two references to: Dr. Dana Aswad, Department of Molecular Biology and Biochemistry, UC Irvine, Irvine, CA 92697-3900. The University of Califonia is an Equal Opportunity Employer committed to excellence through diversity. POSITIONS OPEN

THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL POSTDOCTORAL POSITION

IN SIGNAL TRANSDUCTION POSTDOCTORAL POSITION is available for a molecular biologist/biochemist to investi-

gate molecular mechanisms of bluelight-response reactions in humans. Experience in cloning, immunostaining, and signal transduction is desirable. Send curriculum vitae and names of three references to:

Dr. Aziz Sancar Department of Biochemistry and Biophysics CB# 7260, 405 Jones Building School of Medicine University of North Carolina at Chapel Hill Chapel Hill, NC 27599-7260 FAX: 919-966-2852

#### POSTDOCTORAL POSITION IN CANCER RESEARCH

A POSTDOCTORAL POSITION is available immediately to study the molecular pathogenesis of biliary epithelial cell cancer. Specific project areas of NIH-NCI grant funded research include identifying cellular and molecular mechanisms underlying biliary cancer metastasis, critical transforming genes, and relevant growth factor/ growth factor receptor anomalies. Applicants must hold a recently awarded Ph.D. degree and should have good working experience in epithelial cell culture, and in molecular biology techniques including gene transfection, PCR, Northern and Southern blotting, and Western blotting. Highly competitive salary and fringe benefits. Submit curriculum vitae, three letters of reference, and a letter of application to: Dr. Alphonse E. Sirica, Professor and Division Chair, Division of Experimental Pathology, Department of Pathology, Medical College of Virginia–Virginia Commonwealth University, P.O. Box 980297, Richmond, VA 23298-0297. Tele-phone: 804-828-9549; FAX: 804-828-9749. Virginia Commonwealth University is an Equal Opportunity/Affirmative Action Employer. Women, minorities, and persons with disabilities are encouraged to apply.

POSTDOCTORAL POSITION available for study of biochemical mechanisms and physiological regulation of intracellular protein degradation with focus on regulatory proteins of the ubiquitin-proteasome pathway (*JBC*, 271:3112, 1996; *JBC*, 271:26410, 1996; *Nature*, 385: 737, 1997). Applicants should have strong background in protein biochemistry and molecular biology. Send curriculum vitae and names of three references to: George N. DeMartino, Department of Physiology, University of Texas Southwestern Medical Center, Dallas, TX 75235-9040. U.T. Southwestern is an Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITION** available immediately to study the molecular mechanism of apoptosis. Work focuses on the identification, purification, cloning, and expression of novel proteases and other enzymes mediating apoptotic signal transduction. Results are applied toward development of therapeutics based on the modulation of apoptosis. Background in cell biology, biochemistry, or molecular biology is required with experience in gene cloning a strong plus. Send curriculum vitae to: Dr. Susan C. Wright, Palo Alto Institute of Molecular Medicine, 2462 Wyandotte Street, Mountain View, CA 94043.

#### POSTDOCTORAL POSITION HARVARD MEDICAL SCHOOL

Position available immediately to: 1) use molecular approaches to identify and characterize neuronal glutamate transporters in the brain and spinal cord; 2) study the role of glutamate transporters in stroke as well as in chronic neurodegenerative diseases. Send curriculum vitae, a letter describing research background and interests, and the names of three references to: Dr. Paul Rosenberg, Children's Hospital, Enders 349, 300 Longwood Avenue, Boston, MA 02115. FAX: 617-730-0636. An Equal Opportunity Employer.

#### **POSITIONS OPEN**

#### POSTDOCTORAL POSITION(S) SENSORY SYSTEM SIGNAL TRANSDUCTION

One or two funded **POSTDOCTORAL PO-SITIONS** are available to study molecular mechanisms of proliferation and differentiation in the inner ear. Biochemical and molecular biological approaches are used to study the signaling involved in hair cell regeneration and the regulation of potassium channel gene expression. Candidates should have a strong background in biochemistry and/or molecular biology. Please send curriculum vitae, statement of research experience, and names of three references to:

Dr. J. Carl Oberholtzer Department of Pathology and Laboratory Medicine, 264JMB University of Pennsylvania School of Medicine 3620 Hamilton Walk Philadelphia, PA 19104 FAX: 215-573-7738 Email: oberholt@mail.med.upenn.edu

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#### MASSACHUSETTS GENERAL HOSPITAL HARVARD MEDICAL SCHOOL Cutaneous Biology Research Center

**POSTDOCTORAL RESEARCH** position available September to use molecular and biochemical techniques to study cytokine-mediated gene regulation in the context of chromatin. The position requires a highly motivated individual with a Ph.D. or M.D./Ph.D. and experience in molecular techniques. Salary is negotiable according to experience and institutional guidelines. Send curriculum vitae and names (with addresses, telephone, and fax numbers) of three references to:

> Michael J. Pazin, Ph.D. Massachusetts General Hospital Cutaneous Biology Research Center Building 149, 13th Street Charlestown, MA 02129

The MGH/Harvard CBRC is a committed Equal Opportunity/Affirmative Action Employer. Minorities, women, disabled and veterans are encouraged to apply.

#### MOLECULAR PATHOGENESIS POSTDOCTORAL POSITIONS

**POSTDOCTORAL POSITIONS** are open for work on host-bacterium interactions, animal models of infection, intracellular survival, control of virulence factors, and molecular biology or persistent respiratory pathogens *Mycobacterium tuberculosis* or *pseudomonas aenginosa*. Candidates should have a Ph.D. in microbiology or a related field, M.D., or an equivalent degree. Candidates experienced or with strong interests in animal models or interactions with phagocytic cells are highly encouraged.

Please send curriculum vitae and names of three references to:

Dr. V. Deretic The University of Michigan Medical Center Department of Microbiology and Immunology 5641 Medical Science Building 11 Ann Arbor, MI 48109-0620

#### POSTDOCTORAL POSITION

Position immediately available to study expression, function and structure of bacterial multidrug resistance pumps. The project is funded by NIH and a Biotech Company. Competitive salary commensurate with experience. Please Email résumé to: Dr. Kim Lewis, klewis@emerald.tufts.edu; Biotechnology Center, Tufts University, 4 Colby Street, Medford, MA 02155.

POSTDOCTORAL POSITION available to study factors involved in the regulation of angiogenesis during tumorigenesis and metastasis. Applicants should have strong experience in tumor cell biology/biochemistry. Familiarity with mammalian cell culture, in particular, tumor cell culture, is necessary. Interested candidates should send curriculum vitae with references to: Marsha A. Moses, Ph.D., Laboratory for Surgical Research, The Children's Hospital, Enders Building, 320 Longwood Avenue, Boston, MA 02115.



#### **MOLLUSCAN SHELLFISH GENETICIST** THE COLLEGE OF WILLIAM AND MARY

VIRGINIA INSTITUTE OF MARINE SCIENCE SCHOOL OF MARINE SCIENCE

The Department of Fisheries Science, School of Marine Science, is developing a new state-supported program in aquaculture genetics. In the initial phase of program development we are seeking candidates for two tenure track positions in molluscan shellfish genetics. A Ph.D. in genetics, fisheries science, or a related field is required. One position will be to provide programmatic leadership for an aggressive program in aquaculture genetics and breeding technologies. Candidates should have experience in marine molluscan shellfish breeding programs, documented ability to interact with industry and other user groups, and have a strong record of extramural funding and scholarly productivity. Level of appointment is dependent upon qualifications and experience, but we are seeking an established scientist who will bring leadership to the program. The second position will be filled at the assistant professor level. Candidates should have a strong background in cyto-, molecular, or quantitative genetics and experience in state of the art breeding technologies. Both candidates will be expected to develop rigorous grantsupported research programs, teach graduate-level courses in their specialty, mentor M.A. and Ph.D. graduate students, and provide advice to state and federal management agencies and to industry. Support of aquaculture development will also be expected. Review of applicants will begin 15 May 1997 and continue until the positions are filled. Letter of application and curriculum vitae accompanied by the names, addresses and phone numbers of three references should be sent to:

Dr. John E. Graves Chair, Department of Fisheries Science Virginia Institute of Marine Science The College of William and Mary Gloucester Point, VA 23062

The College of William and Mary is an equal opportunity, affirmative action employer. Members of under represented groups (including people of color, persons with disabilities, Vietnam Veterans and women) are strongly encouraged to apply.

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## Caltech Initiative in Computational Molecular Biology

*CMB Postdoctoral and Senior Postdoctoral Fellowships* The CMB Initiative is a new interdisciplinary program at Caltech supporting training and research at the interface between the biological sciences, the physical sciences and engineering. Our aim is to nurture the integrated, *closed-loop* application of both experimental and theoretical methods to modern problems in molecular biology.

We seek **CMB Postdoctoral and Senior Postdoctoral Fellows**, especially encouraging applications from recent Ph.Ds in the physical sciences or engineering with strong motivation to commence upon biological research. Since the initial phase of the Fellowship will include a specially-tailored apprenticeship program in molecular biology, previous research experience in this field is not an absolute prerequisite. A demonstrated record of innovative experimental research, or innovative theoretical research closely tied to experiment, however, is essential.

The 1997 CMB Fellowships will begin in Summer 1997, or earlier, and will offer a competitive stipend, based upon the candidate's experience, with a research expense fund of \$10,000 per year.

Materials in support of an application should include: a) a curriculum vitae, b) a publication list, c) reprints or preprints documenting the candidate's research experience, d) four letters of recommendation sent directly to Caltech (including comments about the applicant's suitability for this program), and e) a statement of the candidate's research interests in biology, explicitly listing two Caltech faculty members (one each in the biological and physical sciences/engineering) upon whose collaborative resources and expertise the candidate would draw. The application deadline is **JUNE 1**, **1997.** Send all materials to:

CMB Postdoctoral Fellowships, Caltech 114-36, Pasadena, CA 91125 Caltech is an Affirmative Action/Equal Opportunity Employer. Women, Minorities, Veterans and Disabled Persons are Encouraged to Apply.

(For further details see: http://www.cco.caltech.edu/~cmb)

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Director of the John Curtain School of Medical Research. Institute of Advanced Studies, The Australian National University. The University seeks to appoint a Director of the John Curtin School of Medical Research to succeed Professor Kevin Lafferty, whose appointment will conclude on 3 July 1998. The John Curtain School of Medical Research was established to be a place of international excellence in medical research and the 1995 Review confirmed that the School continues to occupy this privileged and special position in Australian science and society, and internationally. The School undertakes fundamental biomedical research of a long-term nature as well as shorter-term and applied projects. There are currently 27 research units organized within four divisions: Biochemistry and Molecular Biology, Immunology and Cell Biology, Molecular Medicine, and Neuroscience. The Director of The John Curtin School of Medical Research will be responsible through the Vice-Chancellor to the Council of the University, for the leadership of the School as an academic enterprise and for the management of its human and financial resources. The new Director will have the opportunity to strengthen current research activities, to develop new initiatives which will maintain the School's academic leadership into the next century and to strengthen links between the School's basic research and patient-oriented clinical research. The University therefore wishes to appoint an intellectual leader of international distinction, with an outstanding reputation for excellence in one or more of the broad areas of biomedical science pursued by the School. Applicants should be experienced in research management, and policy development in scientific research and graduate training, and have the ability to sustain and develop linkages with universities and research institutions in Australia and overseas, and with government and industry. Applicants should also have the ability to promote the image of the School and lead initiatives to attract external funding to The John Curtin School of Medical Research. The successful candidate will be offered an extended fixed term appointment as Professor of the University, The term of office as Director, normally for a period of five years, will be determined by the University in consultation with the person recommended. Reappointment may be possible. Support for the Director's own research will be provided. Contact: Ms. Pamela J. Ferrar, Secretary to the Selection Committee, Telephone: (Int 61-6-) (Natl. 06) 249 3200; Fax: (61-6) or (06) 249 4836; email: pamela.ferrar@anu.edu.an. Further particulars and selection criteria should be obtained before applying. Closing date: 31 May 1997. Ref: JC 9.4.I. Applications should be written against the selection criteria and be submitted in duplicate to The Recruitment Officer, The Austalian National, Canberra. ACT 0200, Australia, quoting the reference number and including curriculum vitae, list of publications, names, addresses and fax numbers of at least three referees. The University has a "no smoking" policy in all University buildings and vehicles. The University is an Equal Opportunity Employer.

#### POSITIONS OPEN

POSTDOCTORAL FELLOW available to study roles of growth factors in immune dysregulation and of cyclin dependent kinases (Cdks) in cytoskeletal organization using gene knockout mouse models (Kulkarni et al., PNAS 90:770; AJP 146:264; Olshima et al., PNAS 93:11173 and PNAS 94:2540). Appropriate experience in molecular mouse embryology/immunology/cell biology/molecular biology preferred. Interested applicants should send curriculum vitae (with key publications) and names of three references to: Dr. Ashok B. Kulkarni, Gene Targeting Research and Core Facility, NIDR, NIH, Building 30, Room 132, Bethesda, MD 20892-4326. Applications must be received by May 23, 1997.

The NIH is an Equal Opportunity Employer.

A POSTDOCTORAL POSITION is available to study the structure, function, and regulation of the transcriptional co-activator CREB-binding protein (Journal of Biological Cleonistry 271:28138, 1996). Prior training in molecular and cellular biology desired but not necessary. Send curriculum vitae and names of referees to: John Chrivia, Department of Pharmacological and Physiological Science, Saint Louis University School of Medicine, 1402 South Grand Boulevard, St. Louis, MO 63104. Telephone: 314-268-5326; FAX: 314-577-8233; Email: chrivia@slu.edu. Equal Opportunity Employer. Women and minorities are encouraged to apply.

**POSTDOCTORAL POSITION** available immediately in a dynamic research group involved in controlled drug delivery using polymeric delivery devices. Candidates must have a Ph.D. in pharmaceutical science or related field with a background in drug delivery and pharmacokinetics. Applicants must possess excellent interpersonal and written/oral presentation skills. Send curriculum vitae to: Cato Laurencin, M.D., Ph.D., Allegheny University Hospitals, 3300 Henry Avenue, Philadelphia, PA 19129.

#### POSITIONS OPEN

#### POSTDOCTORAL POSITIONS

Positions to conduct molecular biology or enzyme analysis with *Clostidium actobutylicum* in research group interested in biotechnology and metabolic engineering of this anaerobic solvent producing organism. Work is related to regulation of solvent production, genetic recombination, metabolite analysis and enzyme characterization. Relevant experience with an appropriate microbial system expected.

Also, a position for development of methods for assembling DNA fragments and making large scale chromosomal rearrangements in microbes via transposon technology is available. Experience with transposons and DNA manipulation techniques expected. Send curriculum vitae, statement of research experience, and names with contact information for three references to: George N. Bennett, Department of Biochemistry and Cell Biology, Rice University, 6100 Main Street, Houston, TX 77005-1892. FAX: 713-285-5154. Email: gbennett@bioc.rice.edu.

#### MOLECULAR ENDOCRINOLOGISTS

Two POSTDOCTORAL RESEARCH FELLOW-SHIPS available immediately for recent Ph.D.s in endocrinology, molecular biology, or related discipline to study developmental regulation of either the growth hormone receptor gene or prolactin receptor gene expression in the chicken. Strong background in molecular biology is required. Send curriculum vitae, research interests and names of three references to: Dr. Larry A. Cogburn, Department of Animal and Food Sciences, Room 040 Townsend Hall, University of Delaware, Newark, DE 19717-1303. FAX: 302-831-3651; Email: cogburn@ strauss.udel.edu.

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Protein Chemistry **POSTDOCTORAL POSITIONS**. NIH-funded heme protein projects require biochemists with experience in PCR, mutagenesis, expression and purification. Opportunity to learn biophysical characterization, including NMR and kinetics. For more information contact: **Jim Satterlee**, **Chemistry Department**, **Washington State University**, **Pullman**, **WA 99164-4630**. To apply send curriculum vitae, publication list and references. **Email: hemeteam@cosy.chem.wsu.edu**.

#### POSITIONS OPEN

POSTDOCTORAL FELLOWSHIPS available to study the pathogenesis and prevention of HIV-1 dementia, under the NCDDG-HIV program. This collaborative research program encompasses virology, immunology, pharmacology and neurobiology. Studies will focus on the identification of compounds that block oxidative stress and NFkB activation, thus combining neuroprotection, anti-inflammatory and (indirectly) antiretroviral strategies. One position is available to work with **Dr. Stephen Dewhurst**, on experiments aimed at elucidating the role of NFkB in maintaining chronic inflammatory processes in the brain. A second position is available in the laboratory of Dr. Harris Gelbard, to conduct pharmacologic studies to define the cellular pathways underlying oxidative stress in human neurons. Send curriculum vitae and names of three references to: Ms. Carol Acomb, Department of Neurology, University of Rochester Medical Center, 601 Elmwood Avenue–Box 631, Rochester, NY 14642. Email: dwrt@bphvax.biophysics.rochester.edu; hgelbard@mail.neurology.rochester.edu

#### POSTDOCTORALS OR RESEARCH ASSOCIATES

Two NON-CAREER-SERVICE POSITIONS are available starting approximately July 1, 1997, to study the molecular population genetics of Atlantic bay scallops for both theoretical and practical applications in a three-year research program. Experience in DNA RFLP analysis and in DNA sequencing or DNA fingerprinting desired; experience with molluscan DNA preferred. M.S. or Ph.D. desired. Starting salary range: \$20,900 to \$28,500. Sen curriculum vitae, three references, and most recent university transcripts to: Dr. Theresa M. Bert, Ph.D., Florida Marine Research Institute, 100 Eighth Avenue Southeast, St. Petersburg, FL 33701 by June 1, 1997. FAX: 813-823-0166. Equal Opportunity/Affinnative Action Employer.



Postdoctoral Fellowship positions are available beginning immediately to participate in ongoing NIH-funded studies of the molecular basis of genetic polymorphisms for drug metabolizing enzymes that alter drug toxicity and/or therapeutic efficacy. Candidates should have Ph.D. and/or an M.D. degree, with experience in pharmacology, molecular biology and/or molecular genetics. Experience in cDNA cloning, gene cloning and DNA polymorphism detection would be helpful. Send curriculum vitae and list of three references to:

Dr. Richard Weinshilboum Department of Pharmacology Mayo Medical School Mayo Clinic Rochester, MN 55905 Mayo Foundation is an affirmative action and equal opportunity educator and employer.

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#### **AUSTRALIA:**

Keith Sandell Tel: (+61) 02 922-2977 Fax: (+61) 02 922-1100





The University of Cincinnati Medical Center's Department of Pathology and Laboratory Medicine is seeking faculty member(s) at the Assistant or Associate Professor level for a new program in lipid and lipoprotein metabolism. The program is currently housed in the new Cardiovascular Research Center with investigators actively working on the pancreatic lipolytic enzymes, apolipoproteins, and intestinal absorption and transport of lipids, lipid soluble vitamins, and lipoproteins. All investigators in this program are currently supported by NIH. Investigators joining this program will have access to core facilities for most protein, lipid, radioisotopic, molecular and lipoprotein analyses. In addition, the University of Cincinnati has a molecular biology core that can make transgenic and knockout mice for a fee. Candidates with interests in lipid and cholesterol metabolism, especially during the developmental period, and an established record of productivity with a funded research program are encouraged to apply. Applicants should submit, as soon as possible, curriculum vitae, bibliography, a brief statement of research interests, and arrange for three letters of recommendation to be sent to: Dr. David Hui, **Department of Pathology and Laboratory** Medicine, University of Cincinnati College of Medicine, 231 Bethesda Ave. (ML 0529), Cincinnati, Ohio 45267-0529. University of Cincinnati is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply

## Post Doctoral Position -Biohydrometallurgy

**COMINCO Ltd.** is a Canadian based international integrated natural resource company whose principal activities are mineral exploration, mining, smelting and refining. The operation at Trail, British Columbia, is one of the world's largest integrated zinc and lead smelters, employing approximately 2000 people. The Corporate Research Centre is located at the Trail operation and employs more than 50 permanent staff, including 15 PhD's.

Cominco Research has a temporary (1-2 years) Postdoctoral position available for a person seeking industrial experience while conducting applied Microbiological research in the field of Biohydrometallurgy. The main research topics will deal with bacterial dissimilatory sulphur and iron metabolism as applied to the mining and minerals industry.

Applicants will have a PhD degree with at least one degree in Microbiology or a related field. An additional degree in Engineering will be considered an asset. The successful candidate will be expected to develop and execute research programs in areas of interest to the corporation as well as to assist operating plants. A demonstrated ability to produce high quality research reports is essential, as are the interpersonal skills needed to relate to a wide range of internal customers and external contacts.

Trail, located in southeastern British Columbia, offers a moderate climate, reasonably priced housing, excellent medical and educational facilities and outstanding indoor/outdoor recreational opportunities.

COMINCO offers an attractive compensation and benefit package. Qualified applicants are invited to forward resumes, including the names of at least two references, by May 16, 1997, to: *Michael E. Rowe, Human Resources, Cominco Ltd., Trall, BC V1R 4L8. Fax: (250) 364-4109.* 



#### The Ohio State University Endowed Chair of Agricultural Ecosystems Management

#### Full Professor

The successful candidate will be expected to catalyze and serve multidisciplinary teams of faculty and members of the agricultural community in developing research and educational programs that are strongly ecologically based, with emphasis on systems approaches to decision making at farm, community, and watershed levels. The person will hold the first endowed chair at The Ohio State University, College of Food, Agricultural, and Environmental Sciences' Ohio Agricultural Research and Development Center on the Wooster campus. The successful candidate will hold tenure in the academic unit of choice. There are excellent opportunities for collaboration with natural, physical, and social scientists, as well as with agricultural and environmental organizations. The position will have a very significant support base comprised of staff, graduate students, and operating funds. Qualifications of candidates should include a record of high quality research and outreach. Individuals need to have outstanding interpersonal skills with a broad and creative vision. Applicants should have proven skills in systems and ecological approaches to agricultural and environmental management.

Salary: Negotiable, commensurate with qualifications and experience.

**Benefits:** Group life insurance, major medical, hospitalization, vision care, dental care, Ohio State Teachers Retirement, Worker's Compensation, annual and sick leave.

Available: Appointment to be effective on or after July 1, 1997.

**Application:** The Search Committee will begin reading dossiers on June 1, 1997, and will continue to receive applications until a candidate is selected. Applicants should send a letter of application, resume and names and addresses of five persons who may be contacted as references to:

Dr. L. R. Nault, Chair Search Advisory Team Associate Director OARDC/The Ohio State University 1689 Madison Avenue Wooster, Ohio 44691



The Ohio State University is an equal opportunity/affirmative action employer and complies with all federal and Ohio state laws regarding affirmative action.



## Opportunities in DNA Sequencing National Institutes of Health

Several new programs involving large-scale DNA sequencing are being established at the National Institutes of Health (NIH).

We are seeking individuals to serve in leadership roles within these new research programs. Exciting positions in newly-created groups responsible for sequence production and bioinformatics are available. Candidates should possess a PhD, MD, and/or MS degree. At least one year of experience in automated DNA sequencing and/or computational analysis of sequence data is required.

Please send a letter, CV, and the names of three references to:

Dr. Eric Green, National Institutes of Health, 49 Convent Drive, Room 2A-08, MSC 4431, Bethesda, Maryland 20892-4431

The NIH is an Equal Opportunity Employer and applications by women and minorities are strongly encouraged.

## PUT THE PIECES TOGETHER WITH SCIENCE

## Science Careers Fair

Held in conjunction with the BA Festival of Science

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#### DON'T MISS THIS OPPORTUNITY!

- Employers on site ready to talk to you about their organisation, recruitment programmes and jobs available.
- University SCIENCE graduate programmes on site - ready to answer questions about graduate and postgraduate courses in science.
- On site interviews if you submit your CV to us before the event, we will mail them on to the employers and universities attending, who may arrange for an interview during the careers fair.
- Careers advice seminars interview techniques, writing the best CV, changing career, careers abroad - talks by leading professionals in scientific industry.

#### WHO SHOULD ATTEND?

- SCIENCE undergraduates deciding on a career or looking for early placement.
- SCIENCE graduates searching for that first job, a new job, or a different career path.
- Researchers and established scientists looking to change careers, receive advice on how to make the change and to learn more about the current state of the scientific job market.

<b>REGISTER NOW</b> to receive the full programme for the SCIENCE Careers Fair. Plus, SEND US YOUR CV for advance distribution to employers attending.		
Name:	Attach your CV to this form and return to:	
Address:	Ben Holland, SCIENCE, Science International, 14 George IV Street, CAMBRIDGE, UK CB2 1HH	
	Or, tap into the SCIENCE <i>Careers Fair</i> internet site on http://recruit.sciencemag.org/feature/fair-uk.shl for information and on-line registration.	
Email:	Telephone: +44 (0) 1223 302067	
Please provide home address, not term time address, if you are a student	Fax: +44 (0) 1223 302068 email: bholland@science-int.co.uk	

#### **GLOBAL CAREER OPPORTUNITIES**



## 1998 Field: Molecular Genetics

#### CALL FOR NOMINATIONS

The AUSTRALIA PRIZE is a prestigious international award for outstanding achievement in areas of science and technology. The Australia Prize:

- Promotes the positive impact of science and technology on human welfare;
- Has a cash award of \$300,000;
- Is commemorated by an inscribed Medal.

Nominations are now being sought in the area of Molecular Genetics. Nomination forms and further information are available from the Australia Prize Secretariat.

Australia Prize GPO Box 9839 CANBERRA ACT 2601 AUSTRALIA Telephone: 61 6 213 6446 Fax: 61 6 213 6422 Email: ausprize@dist.gov.au Nominations close on 31 July 1997.

#### **Previous Winners**

The 1997 AUSTRALIA PRIZE was awarded to three scientists in the field of telecommunications. Professor Allan Synder's work at the Australian National University's Optical Sciences Centre was the cornerstone for the development of optical fibre communications. Melbourne University's Professor Rodney Tucker carried out groundbreaking research at the University's Photonics Research Laboratory that resulted in a tenfold increase in the carrying capacity of the network. Dr Gottfried Ungerboeck of IBM Research Laboratory in Switzerland provided an innovative trellis-coded modulation system resulting in a breakthrough in the high speed transmission of data.



#### MAX-PLANCK-INSTITUT FÜR MEDIZINISCHE FORSCHUNG

### POSTDOC/PREDOC POSITIONS

Structural Biology

#### Max-Planck-Institute for Medical Research, Heidelberg

One senior postdoctoral position (BAT IIa) and two European Union-funded positions (postdoctoral and/or predoctoral) are available in a newly established research group on Ion Channel Structure at the Max-Planck-Institute for Medical Research in Heidelberg, Germany. Our research focuses on structure determination and structure-function relationships of glutamate receptor ion channels recombinantly expressed using the baculovirus system. Potential research topics include, but are not limited to:

- Crystallization and crystal structure determination of soluble extracellular ligand-binding domains of the AMPA receptor GluRB.
- Expression, 2D crystallization, and single-particle electron microscopic analysis of the intact recombinantly expressed AMPA receptors GluRB and GluRD.
- Spectroscopic analysis of conformational changes associated with channel gating and inactivation.

The positions are funded initially for a period of two years each. The research group currently consists of one postdoc, two graduate students, and a technician and shares the X-ray diffraction computer, and electron microscopy facilities of the Biophysics Department (2 Siemens area detectors, GX18 anode, Zeiss EM 902 and 912 microscopes). We will occupy newly renovated lab space with biochemistry and cell culture facilities. Technical support is available. International candidates are particularly encouraged to apply.

The application deadline is May 30, 1997. Applications including a cv, list of publications, and the names of 3 references should be sent to:

Dr. Dean Madden

Ion Channel Structure Research Group

Max-Planck-Institute for Medical Research

Postfach 10 38 20, D-69028 Heidelberg, Germany

fax: +49 (6221) 486437, madden@mpimf-heidelberg.mpg.de

### INSTITUTE of CELL and MOLECULAR BIOLOGY RESEARCH GROUP LEADERS

The Institute of Cell and Molecular Biology has expanded through construction of a new building devoted to basic research in cell biology and now comprises 44 research groups working on a wide range of problems in the following areas: cell biology of prokaryotes and eukaryotes; microbial genetics; fungal, plant and animal development; structural biology; plant-microbial interactions; and molecular plant taxonomy.

The Institute is keen to recruit outstanding young researchers with the potential to lead internationally competitive groups in all areas of its activity. Funding for research and salaries of those recruited will be sought from a variety of sources including The Wellcome Trust, The Royal Society, the MRC and the BBSRC.

Further information about the Institute can be obtained from http://www.icmb.ed.ac.uk or from the address below. Applications, which will be treated in strict confidence, should include four copies of a CV, including the names of three referees, a list of publications, and a 1-2 page research proposal. These should be sent by 30 May 1997 to Professor David Finnegan, Chairman of the Search Committee, Institute of Cell and Molecular Biology, Darwin Building, The King's Buildings, Mayfield Road, Edinburgh EH9 3JR (tel: 0131 650 5361; fax: 0131 650 8650)



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In the thirteen years since our opening, the Whitehead Institute has become a prominent resource in the world of biological research, and an integral part of MIT's teaching community. We attract the brightest scientists with promising research agendas, and then give them the freedom to pursue their own dreams. The results are nothing short of extraordinary. Join us.

### POSTDOCTORAL ASSOCIATE

• A three year appointment for a Postdoctoral associate to create novel versions of green fluorescent protein. Must be highly skilled in protein engineering, biochemistry, and experienced with combinatorial chemistry and phage display libraries. Ph.D. in molecular biology or equivalent.

We offer excellent salaries, generous benefits, and interaction with the MIT community. Please send resumes to: Dr. Paul Matsudaira, Whitehead Institute for Biomedical Research, Nine Cambridge Center, Cambridge, MA 02142.

Equal Opportunity Employer.



### **GLOBAL CAREER OPPORTUNITIES**

## NATIONAL HEALTH RESEARCH INSTITUTES

Division of Environmental Health and Occupational Disease Research Director Position

The Division of Environmental Health and Occupational Disease Research of the National Health Research Institutes (NHRI)—a newly established, nonprofit research organization supported by the Government of Taiwan, the Republic of China—invites applicants for the position of director.

The Director's responsibilities include the planning, development, implementation, promotion, and coordination of various research programs related to environmental and occupational health problems in Taiwan. Candidates should hold a Ph.D. or M.D. degree in biomedical science and have been in a leadership position for more than five years with a proven track record in related research.

Candidates should possess strong leadership qualities and be highly innovative, creative, communicative and dynamic. He/she should also be familiar with the environmental and occupational health problems of Taiwan. Proficiency in Chinese is required. Salary will be highly competitive.

Please apply to:

President Cheng-Wen Wu

National Health Research Institutes

128 Yen-Chiu-Yuan Road, Sec. 2, Taipei 115, Taiwan R.O.C.

Tel: 886-2-651-3712, Fax: 886-2-651-3742

Applications shall include:

1) A letter of intent

- 2) Curriculum vitae
- 3) A list of publication
- 4) A copy each of five major recent publications
- 5) Five recommendation letters
- 6) Tentative plan for the division
- Deadline: June 30, 1997

Prize

Nominations are solicited for the third annual

## MARCH OF DIMES PRIZE IN DEVELOPMENTAL BIOLOGY

This prize, consisting of a medal and \$100,000 will be awarded to an investigator who has made a seminal discovery in biology, one that has revealed a new principle of relevance to birth defects, and who has not previously received a major prize for this work.

We request nominations of candidates for the 1998 award. Please make your recommendations before September 15, 1997, by letters, accompanied by the c.v.'s and bibliographies of those you are nominating, addressed to: Michael Katz, M.D., Vice President for Research, March of Dimes Birth Defects Foundation, 1275 Mamaroneck Avenue, White Plains, NY 10605.

The previous recipients were:

1997 – Drs. David Hogness and Walter Gehring for their respective studies of homeobox genes in Drosophila.

1996 – Drs. Beatrice Mintz and Ralph L. Brinster for their respective studies that culminated in the development of transgenic mice.



Meeting in February 1998 in Philadelphia, Pennsylvania is given to an individual or small group working together in the scientific or engineering community who makes outstanding contributions to further international cooperation in science or engineering. The award is open to all regardless of nationality or citizenship. Nominees must be living at the time of their nomination. The recipient receives US \$2500 award, a commemorative plaque, complimentary registration, and reimbursement for reasonable travel and hotel expenses. Nominations should be typed and include the following information: nominator's name, address, phone number; nominee's name and title, institutional affiliation, address, phone number; two letters of support; curriculum vitae (3 page maximum); a summary statement of actions that forms the basis for the nomination (250 words); a longer detailed statement of the actions for which the candidate is nominated; any documentation (books, articles, or other materials) illuminating the significance of the nominee's achievement may also be submitted. All materials become the property of AAAS. Completed nominations should be submitted to: Awards Coordinator, Development Office, American Association for the Advancement of Science, 1200 New York Avenue, N.W., Washington, D.C. 20005, U.S.A. FAX: (202) 789-2008. All materials must be received by August 1, 1997.

#### POSITIONS OPEN

#### PERMANENT AND POSTDOCTORAL POSITIONS LNLS/CNPQ—BRAZIL

The Brazilian National Synchrotron Light Laboratory-LNLS/CNPq-is expanding its scientific and technical staff. Qualified RESEARCHERS with postdoctoral experience in physics, chemistry, biology, materials science, environmental sciences, accelerator physics, insertion devices, or other branches of science related to materials investigation with synchrotron light are invited to apply for both visiting and permanent positions. Fixed-term **POSTDOCTORAL POSITIONS** are also available. Previous experience with synchrotron light is highly desirable, but outstanding candidates without it will also be considered. Successful candidates will be expected to show an outstanding research record in science and/or technology. Experimentalists and theorists capable of developing the existing research programs (for details see http://www.lnls.br), as well as leading research into new areas are being sought. Scientists and engineers interested in the development of insertion devices, synchrotron light instrumentation, microfabrication, and light sources are invited to apply. Application deadline is July 1, 1997. Send résumé, list of publications, copies of three papers, and the names of three referees to: Director, LNLS, CX.P. 6192, Campinas 13083-970, SP, Bra-zil. FAX: +55 19 257-4632 (until April 19. After April 19: 287-4632). Email: research@lnls.br.

A POSTDOCTORAL POSITION is available to investigate the protein structure and function of two membrane proteins of Treponenna pallidum (the syphilis spirochete): (i) the major 47-kDa penicillin-binding protein (Zn-dependent carboxypeptidase; see PNAS 91:11611, 1994) and (ii) *T. pallidium* rare outer membrane protein-1 (Tromp-1). Studies will involve site-directed mutagenesis and X-ray crystallography in a collaborative project with Drs. Justin D. Radolf and Charles A. Hasemann. Candidates should have expertise in protein biochemistry, protein structure, and molecular biology with an earnest interest in learning X-ray crystallography. The position offers the opportunity to conduct research in an attractive and dynamic research environment. Candidates should send their curriculum vitae and names and addresses of three professional references to: Dr. Michael V. Nor- Gard, Vice Chairman, Department of Microbiology, University of Texas Southwestern Medical Center, 6000 Harry Hines Boulevard, Dallas, TX 75235-9048. U.T. Southwestern Medical Center is an Equal Opportunity Employer.

**POSTDOCTORAL POSITION** is available to study the structure and function of the espin family of actinbundling proteins (*J. Cell Sd.* **109**:1229–1239, 1996) in Sertoli cell-spermatid junctions, intestinal and renal brush border microvilli, and hair cell stereocilia. A strong background in cell and molecular biology is required. Send curriculum vitae and the names and telephone numbers of three references to: Dr. Jim Bartles, Department of Cell and Molecular Biology, Northwestern University Medical School, 303 East Chicago Avenue, Chicago, IL 60611. Email: j-bartles@nwu.edu. Northwestern University is an Equal Opportunity/Affinative Action Educator and Employer.

#### POSTDOCTORAL POSITION

Transcriptional control of mammalian cell growth and differentiation, p202 and the gene 200 cluster.

Applicants are invited for exploration of the functions and mechanisms of p202 and other proteins encoded by the gene 200 cluster. Applicants should be proficient in recombinant DNA techniques.

Please send résumé and three references to: Dr. Peter Lengyel, Yale University, Department of Molecular Biophysics and Biochemistry, School of Medicine, 333 Cedar Street, C-139 SHM, New Haven, CT 06520-8024, USA.

**POSTDOCTORAL POSITION** to study glycosylation of proteins synthesized with the baculovirus expression vector system. Carbohydrate structures will be determined for glycans on recombinant protein produced in insect cells cultured under varying conditions. Preference will be given to candidates with experience in glycoprotein analyses and insect cell bioreactors. Send curriculum vitae and three references to: Dr. H. Alan Wood, Boyce **Thompson Institute, Tower Road, Ithaca, NY 14853**. *An Equal Opportunity/Affirmative Action Employer.* 

#### POSITIONS OPEN

POSTDOCTORAL ASSOCIATE to participate in the development, execution and operation of laboratory projects in bladder and prostate cancer research. Basic qualifications are M.D. or Ph.D. in immunology or molecular biology. Experience in both fields required. Completion of at least three years of postdoctoral training. Desirable qualifications are three years of experience with orthotopic bladder and prostate cancer animal models, experience with molecular manipulation of mycobacteria to include development of recombinant bacteria, DNA sequencing, PCR, site-directed mutogenesis, protein purification and analysis, maintenance of transgenic mice, flow cytometry, lymphocyte, notification assays, cytotoxicity assays, and general immunologic techniques. Send résumés to: Tim Ratliff, Ph.D., Department of Urology, 200 Hawkins Drive, Iowa City, IA 52242-1089. The University of Iowa is an Equal Opportunity/Affirmative Action Employer. Women and minorities are strongly encouraged to apply.

Graduate Assistantships, CNS Pharmacology. The Division of Neurobiology and Behavior Research, Department of Psychiatry, University of Mississippi Medical Center has graduate assistant positions available. Faculty research programs focus on understanding the neurobiological and behavioral bases of mental illness, drug abuse and sleep. State-of-the-art facilities are available for research utilizing a variety of modern pharmacological methods, including neurochemistry, ex vivo brain imaging, molecular biology, quantitative evtoarchitectonics, electrophysiology, neuroendocrinology, and behavioral pharmacology in animal and human subjects. Positions include stipend and fringe benefits. Interested individuals should write for application materials to: William L. Woolverton, Ph.D., Director, Division of Neurobiology and Behavior Research, Department of Psychiatry and Human Behav-ior, The University of Mississippi Medical Center, 2500 North State Street, Jackson, MS 39216. Email: woolvert@fiona.umsmed.edu. Equal Opportunity Employer, Minorities/Females/Disabled/Veterans

#### POSTDOCTORAL POSITION UCSF CANCER CENTER

Investigating molecular mechanisms of synergism between estrogen and the HPV16 oncogenes during cervical carcinogenesis using novel transgenic mouse models. The laboratory is a state-of-the-art facility, affiliated with a multidisciplinary program in cancer genetics. Candidates should have extensive experience in molecular biology; preference will be given to applicants eligible for future external awards and fellowships.

Curriculum vitae, statement of research interest, names, addresses and telephone numbers of three references should be sent to: Jeffrey M. Arbeit, M.D., UCSF Cancer Center, Cancer Genetics Program, Box 0808, San Francisco, CA 94143-0808. Email: jarbeit@cc.ucsf.edu.

NIH-funded **POSTDOCTORAL POSITION** to start July 1997. Project to focus on the transcriptional control of genes regulating apoptosis of the distal lung epithelium. Send curriculum vitae and three references to: Alan Fine, M.D., The Pulmonary Center R-3, Boston University School of Medicine, 80 East Concord Street, Boston, MA 02118. FAX: 617-536-8093.

**POSTDOCTORAL POSITION** available immediately in a dynamic research group involved in tissue engineering with emphasis on the orthopaedic applications of biodegradable polymers, composites and other biomaterials. Candidates must have a Ph.D. in cell biology or related field with experience in culturing mescnchymal cells. Applicants must possess excellent interpersonal and written/oral presentation skills. Send curriculum vitae to: Cato Laurencin, M.D., Ph.D., Allegheny University Hospitals, 3300 Henry Avenue, Philadelphia, PA 19129.

**POSTDOCTORAL POSITION** available to study the regulation of p53-dependent transcription. A Ph.D. degree with a strong background in molecular biology is required. Self-motivated individuals with training in transcription regulation and protein purification are especially encouraged to apply. Applicants should send a curriculum vitae and three references to: Dr. Xuan Liu, Department of Biochemistry, University of California, Riverside, CA 92521. Email: xuan.Liu@ucr.edu.

#### POSITIONS OPEN

#### POSTDOCTORAL POSITION

Available now: a **POSTDOCTORAL OPPORTU-NITY** in an NIH-funded laboratory, using *Dresophila* to study the molecular mechanisms underlying touch and hearing. A large collection of mutants has identified genes required for mechanosensory transduction. Projects include molecular analyses of the affected genes and electrophysiological and ultrastructural studies of mechanosensory cells. Please send résumé and names of three references to: **Maurice Kernan, Department of Neurobiology and Behavior, State University of New York at Stony Brook, Stony Brook, NY 11794-5230**. *Stony Brook is an Affirmative Action/Equal Opportunity Employer*.

**POSTDOCTORAL POSITION**, funded by NIH and Human Frontier Science Program, available for structural studies of helicases, using electron microscopy and computed image analysis. Recent work in our laboratory (e.g., *Nature Struct. Biol.* 4:101–104, 1997; *J. Mol. Biol.* 266:217–222, 1997) is aimed at understanding the function of hexameric helicases involved in DNA replication, recombination, repair and transcription. Candidates should have a strong background in either electron microscopy or computed image analysis. Send curriculum vitae plus names of three references to: Prof. Edward H. Egelman, Department of Cell Biology and Neuroanatomy, University of Minnesota Medical School, 321 Church Street S.E., Minneapolis, MN 55455.

#### **ANNOUNCEMENTS**

#### ASSISTANT DIRECTOR TROPICAL FORESTRY RESEARCH

The International Institute of Tropical Forestry, located in Rio Piedras, Puerto Rico, is a unit of the USDA Forest Service. The Institute's research and development mission is to develop and disseminate knowledge of scientifically sound practices that contribute to sustainable use of tropical forest resources, the conservation of primary forests, the rehabilitation of degraded lands and the management of tropical forests, wildlife, and watersheds in tropical America.

#### Applications are invited for the following position: ASSISTANT DIRECTOR, RESEARCH: Combines

ASSISTANT DIRECTOR, RESEARCH: Combines a strong research role in any discipline related to tropical forestry with a broad range of managerial activities which provide a work environment that stimulates high productivity and high morale by a diverse group of scientists and support personnel in a culturally diverse atmosphere. Starting salary range is \$56,000 to \$66,000.

For information about applications and further details about the positions and closing dates, contact: Wanda Marrero, Telephone: 787-766-5335; FAX: 787-766-6302 or by mail at:

#### P.O. Box 25000

#### Rio Piedras, Puerto Rico 00928-5000

Ability to live and work in a culturally diverse setting as well as language capability in Spanish and/or Portuguese are required.

Starting salary is dependent on the qualifications of the individual. A cost of living adjustment, currently 10 percent, would be added.

The U.S. Department of Agriculture is an Equal Opportunity Employer.

#### COURSES & TRAINING

#### CARDIOVASCULAR PATHOPHYSIOLOGY FOR ENGINEERS AND SCIENTISTS

A one-week intensive **COURSE** sponsored by the Massachusetts Institute of Technology. June 16–20, 1997, Cambridge, Massachusetts. **Dr. Richard J. Cohen**, **Program Director**. Basic Principles of Cardiovascular Physiology, Cardiovascular Medicine, Diagnostic and Therapeutic Technologies. Contact: **Director of the MIT Summer Session**, **Telephone: 617-253-2101**.

#### COMPUTER MARKETPLACE

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David G. Standaert, M.D., Ph.D. Assistant Neurologist, Massachusetts General Hospital Assistant Professor of Neurology, Harvard Medical School

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Frank Tufaro, Ph.D. Associate Professor, Dept. of Microbiology and Immunology, University of British Columbia Chief Scientific Officer, NeuroVir Research, Inc.





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