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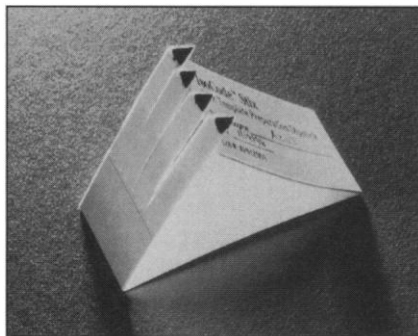
PRODUCTS & MATERIALS

Near-Field Optical Force Sensor

A novel multifunctional probe uniquely resolves the problems of near-field super-resolution optical imaging while fully integrating such imaging into all conventional scanner probe microscopes. The aim of these near-field optical elements is to readily allow subwavelength points of light to be brought within the near-field of a surface that is to be interrogated in conventional scanned probe microscopes. The new design permits the capabilities of super-resolution near-field optical imaging to be extended to the growing community of scanned probe microscopists. In the past, if one wanted to obtain near-field optical images it was necessary to struggle with the limitations of simple tapered-glass optical elements. The new advance involves a cantilevered structure in which the fiber tip is bent and coated so that light can be transmitted to the tip with the same efficiencies as those of conventional, straight, tapered near-field optical elements. **Nanomics. Circle 138.**

PCR Template Preparation Dipsticks

IsoCode Stix are blood collection dipsticks for isolation of DNA prior to polymerase chain reaction (PCR). High quality DNA can be isolated in less than 35 min inexpensively and reproducibly, without the use of hazardous reagents and with consistent results from locus to locus. A matchbook-like configuration contains four dipsticks, each



sively and reproducibly, without the use of hazardous reagents and with consistent results from locus to locus. A matchbook-like configuration contains four dipsticks, each

Newly offered instrumentation, apparatus, and laboratory materials of interest to researchers in all disciplines in academic, industrial, and government organizations are featured in this space. Emphasis is given to purpose, chief characteristics, and availability of products and materials. Endorsement by *Science* or AAAS is not implied. Additional information may be obtained from the manufacturers or suppliers named by circling the appropriate number on the Readers' Service Card and placing it in a mailbox. Postage is free.

with a perforated triangle at the end that serves as the area for collection of 10 to 12 μ l of blood. Upon elution, blood components that inhibit amplification, such as hemoglobin, remain on the matrix when the DNA is released. Eluted DNA is suitable for both standard and long-range PCR. IsoCode Stix can be used with heparin- and EDTA-treated blood. **Schleicher & Schuell. Circle 139.**

Immunomagnetic Particles

The MagNIM product line is a series of sub-micron-sized, coated immunomagnetic particles for the isolation and purification of rare cells, subcellular components, nucleic acids, and macromolecules, and for enzyme-linked immunosorbent assay applications. Antibodies coupled to these particles will bind to specific sites on cells. The targeted materials with the magnetic particles are separated out of solutions by way of an external magnetic field. The separated magnetic particles are captured in the flux lines of the magnetic field inside a vessel, test tube, or flow cell until the magnetic field is removed, when the particles lose their magnetic properties and resuspend with the purified targeted materials. **Cardinal Associates. Circle 140.**

High-Speed Cell Sorting

The Turbo Sort Option is a high-speed cell sorting module for the FACS Vantage flow cytometer system. The option provides researchers with the necessary speed, purity, and cellular viability to sort rare cell populations. The option is also available as an upgrade for the FACStar-plus flow cytometer. **Becton Dickinson Immunocytometry Systems. Circle 141.**

DNA Probe Assays

PathoGene DNA Probe Assays detect and identify a wide range of infectious agents.

The assays are comprised of two parts, a Probe Pack and a detection system of choice, allowing for either colorimetric or fluorescence detection of in situ hybridization. The assays are available for a variety of infectious agents, including adenovirus, cytomegalovirus, herpes simplex virus, Epstein-Barr virus, hepatitis B virus, human papillomavirus, and *Chlamydia trachomatis*. Following hybridization with the biotinylated probes, detection can be accomplished enzymatically with horseradish peroxidase or alkaline phosphatase or by direct fluorescence visualization. **Enzo Diagnostics. Circle 142.**

Fluorescent Protein Gel Stain

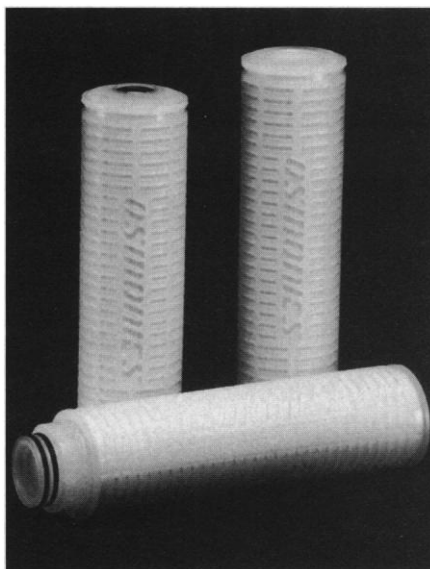
SYPRO Orange stain is a fluorescent reagent for visualizing and measuring total protein in gel electrophoresis. It does not stain DNA or RNA contaminants and does not interfere with blotting. The stain reveals as little as 1 ng protein per band, thus providing a convenient alternative to silver or Coomassie staining. Following sodium dodecyl sulfate polyacrylamide gel electrophoresis, the gel is stained for 30 min and then visualized on a 302-nm ultraviolet light box. **Bio-Rad Laboratories. Circle 143.**

Bibliographic Software

EndNote Plus for Windows bibliographic database program has a new add-in version integrated into Microsoft Word 7 for Windows 95, Microsoft Word 6 for Windows 3.1, and Microsoft 6 for Windows NT. The program stores, manages, and searches for bibliographic references in a user's database. The program is also a bibliography maker—users insert citations from their database into a word processor document and EndNote Plus scans the document and creates a bibliography according to the chosen bibliographic style. The new add-in enables users to complete all their bibliographic tasks, such as inserting citations and creating bibliographies, using commands in Microsoft Word's "Tools" menu. **Niles and Associates. Circle 144.**

Filters for Protein-Rich Solutions

A new line of Memtrex-pleated filters offers superior resistance to protein fouling. Constructed with an asymmetric, modified polyethersulfone Statistical Software membrane, Memtrex-MP filters are efficient in the removal of submicron-size particles and bacteria. Their porous structure also delivers extremely high flow at low pressure drop. Available with ratings of 0.2, 0.45, and 0.65 μ , the filters remove in excess of



99.9% of all particles of this size or larger. They are available in 10-, 20-, 30-, and 40-inch nominal lengths with end adapters to fit any commercially available filter housing. **Osmonics. Circle 145.**

Literature

Radiation Safety Products describes acrylic beta shielding, contamination control products, and radiation and contamination monitors. **Research Products International Corp. Circle 146.**

Clinical Research Reference Guide demonstrates how capillary electrophoresis can be used in a wide range of applications including evaluation of protein-drug interactions, analysis of DNA, isoform separations of specific proteins, and evaluation of new therapeutic compounds. **Beckman Instruments. Circle 147.**

High Voltage is a new newsletter for chemists using capillary electrophoresis analysis. The publication includes technical articles and application notes with a wealth of how-to and troubleshooting information on this rapidly growing technology. **J&W Scientific. Circle 148.**

EGF Family of Growth Factors is a product guide describing a family of epidermal growth factors and antibodies. **Sigma Chemical Co. Circle 149.**

Evaluation of a Simple Screening Test for Fecal Pollution in Water discusses a study that compared a test for detecting waterborne hydrogen sulfide-producing bacteria (used as indicators of fecal pollution) to six other tests for fecal coliforms, total coliforms, and *Clostridium perfringens*. **Hach Co. Circle 150.**

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7 JUNE 1996

CALL FOR PRESENTATIONS Conference on Examining and Preventing Errors in Health Care October 13-15, 1996

Proposals are invited for presenting papers at plenary sessions and for organizing and leading breakout sessions at a multidisciplinary conference on *Examining Errors in Health Care: Developing a Prevention, Education, and Research Agenda* to be held at the Annenberg Center for Health Sciences, Rancho Mirage, California, October 13-15, 1996. Joining the Annenberg Center as conveners of the conference are the American Association for the Advancement of Science, the American Medical Association, and the Joint Commission on Accreditation of Healthcare Organizations, with the co-sponsorship of the American Hospital Association.

Proposals should reflect the three central topical themes of the conference: •*Diagnosing and Measuring Errors*, •*Factors Contributing to Errors*, and •*Strategies for Preventing and Reducing Errors*, and may be submitted by e-mail, fax, or mail. Include: (1) a summary of your proposed presentation or session, including bibliographic references, of no more than 1,000 words, and (2) a brief resume or biographical sketch. Applications will be evaluated by a board of reviewers. Successful applicants will receive travel expenses, room and board, and a waiver of registration fees. Deadline for receipt of applications is July 1, 1996. Successful applicants will be notified by August 16, 1996.

Proposals or other inquiries should be directed to Deborah Runkle, AAAS, 1200 New York Ave., NW, Washington, DC 20005; Ph: 202.326.6600; FAX 202.289.4950; E-mail: drunkle@aaas.org

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Main Topics

- | | | |
|-----------------------------------|---------------------------------------|---------------------------|
| ■ Antibody Structure and Function | ■ Human and Humanized Antibodies | ■ Diagnostics and Imaging |
| ■ Display Technology | ■ Bispecific and Catalytic Antibodies | ■ Prophylaxis and Therapy |
| ■ Combinatorial Libraries | ■ Expression of MAb and Tag Systems | ■ Other Applications |

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AAAS SCIENCE AND TECHNOLOGY POLICY YEARBOOK

Albert H. Teich, Stephen D. Nelson and Celia McEnaney, editors

The past year has been filled with dramatic developments in science and technology policy following the election in November 1994. Budget cuts, large-scale reorganizations, laboratory closings, and ventures into international cooperation have all been on the table in the most uncertain policy environment in decades. Like the preceding volumes in this annual series, the 1995 YEARBOOK brings together in a single volume the key science and technology policy documents of this remarkable year. Included are papers from the 1995 AAAS Science and Technology Policy Colloquium as well as a variety of other influential documents. Working scientists, engineers, government policymakers and administrators, industrial managers, students and others interested in science and technology policy will find this book an invaluable resource.

1995; 368 pages; \$24.95 (AAAS member price \$19.96)

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Wang, X. et al. Matrix metalloproteinase inhibitor BB-94 inhibits human colon tumor growth and spread in a patient-like orthotopic model in nude mice. *Cancer Res.* 54: 4726-28 1994

Hoffman, R. Orthotopic is orthodox: why orthotopic transplant metastatic models are different from all other models? *J. Cellular Biochem.* 56: 1-4, 1994

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POSITIONS OPEN

RICHARD ROLAND REYNOLDS CHAIR IN NEUROSURGERY

The Division of Neurological Surgery of the Medical College of Virginia, Virginia Commonwealth University, invites applications for the Richard Roland Reynolds Chair in Neurosurgery. The position is offered at the **FULL PROFESSOR** level. We seek an exceptional candidate pursuing imaginative cellular/molecular approaches in areas related to the Division's research interests, which include, but are not limited to, traumatic brain and spinal cord injury, central nervous system reorganization and repair, neuro-oncology, and vascular cell biology. The successful candidate is expected to conduct a vigorous research program, supported by extramural funding. Additionally, the successful candidate is expected to participate in the research training of the Division's resident and graduate student populations. An M.D. and/or Ph.D. with credentials commensurate with appointment at the rank of tenure-eligible professor are required. An attractive salary accompanies this endowed chair, with a generous start-up package available to the successful candidate.

Applicants should send a curriculum vitae and a statement of research interests along with the names, addresses, and telephone and fax numbers of three references by no later than June 30, 1996, to:

Chair of the Richard Roland Reynolds
Chair Search Committee
Division of Neurological Surgery
P.O. Box 980613
Richmond, VA 23298-0613

Virginia Commonwealth University is an Equal Opportunity/Affirmative Action Employer. Women, minorities, and persons with disabilities are encouraged to apply.

DIRECTOR OF TECHNOLOGY TRANSFER

The University of Utah seeks a new **DIRECTOR** for its Office of Technology Transfer. The position reports to the Vice President for Research with primary responsibilities to: 1) identify, market, and manage the intellectual property of the University of Utah; 2) administer the University's Technology Transfer Office and personnel; and 3) interact with State and local community officials on economic development issues.

The University of Utah is aggressively committed to the commercialization of technology, and is among the highest ranking U.S. institutions in patenting and licensing of technology. The University is also a national leader in related corporate start-up activities.

The candidate should have an earned advanced degree in a relevant field. Experience in technology evaluation, commercialization, patentability analysis, business plan review, and technology license negotiations is required.

Please submit a letter of application with a résumé and names, addresses, and telephone numbers of three potential references to: Dr. Edward M. Eyring, Chair, Search Committee for Director of Technology Transfer, University of Utah, 210 Park Building, Salt Lake City, UT 84112.

The University of Utah is an Equal Opportunity/Affirmative Action Employer. Applications from women and minorities are encouraged.

EUNICE KENNEDY SHRIVER CENTER FOR MENTAL RETARDATION

The Biomedical Sciences Division of the Shriver Center is seeking a scientist (Ph.D. or M.D.) to establish a high quality, basic and/or clinically related research program in neuroscience relevant to mental retardation and developmental disabilities. Applicants should be at the **ASSISTANT/ASSOCIATE PROFESSOR** level, with an independently funded research program. Expertise in modern cell and molecular biological approaches to developmental neurobiology and/or neurobiology of genetic disorders is preferred.

Ample opportunity is available for collaborative research within the Boston biomedical community and for joint appointments at Massachusetts General Hospital and Harvard Medical School.

Interested candidates should send curriculum vitae, a short description of research plans, and names of three professional references to: Dr. Firoze Jungalwala, Chairman—Search Committee, Biomedical Sciences, E. K. Shriver Center, 200 Trapelo Road, Waltham, MA 02254. Telephone: 617-642-0136; FAX: 617-893-4824; Email: FJungalwala@Shriver.org. The Shriver Center is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

Chairman, Department of Pathology and Laboratory Medicine—Medical College of Pennsylvania and Hahnemann University School of Medicine. The Medical College of Pennsylvania and Hahnemann University (MCPHU) is a large, health professions university formed in 1995, resulting from the merger of two antecedent institutions—the Medical College of Pennsylvania and Hahnemann University. The University is, in turn, the educational and research component of Allegheny Health, Education and Research Foundation (AHERF). AHERF is a non-profit, statewide integrated academic health system that is proactively meeting the challenges of the changing healthcare environment. The University is located in Philadelphia and consists of four schools: School of Medicine, School of Nursing, School of Health Sciences and Humanities, and School of Public Health.

The School of Medicine is accepting applications for the position of **PROFESSOR AND CHAIR** of the Department of Pathology and Laboratory Medicine. We seek a dynamic and visionary academic leader with a commitment to excellence in education and research. The successful candidate will possess superior administrative skills and will also have a record of significant knowledge and interests in education, research, the healthcare environment, and other scholarly activity.

A letter of interest or nomination along with an updated curriculum vitae should be sent to: David K. Wagner, M.D., Chair, Search Committee for the Chair, Department of Pathology and Laboratory Medicine, Medical College of Pennsylvania and Hahnemann University, School of Medicine, Office of the Dean, 2900 Queen Lane, Philadelphia, PA 19129, c/o Ms. Jennifer Burgmann. MCPHU is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT/ASSOCIATE RESEARCH PROFESSOR OF NEUROLOGY

The Division of Neurology at The Children's Hospital of Philadelphia and the Department of Neurology of the University of Pennsylvania are seeking an **ASSISTANT/ASSOCIATE RESEARCH PROFESSOR** of Neurology with interest and proven expertise in the cellular and molecular biology of neuroglia, and with a track record of independent grant support. The successful applicant will be expected to establish an independent research program in this field, and to participate in collaborative projects with David Pleasure, M.D. and Judith Grinspan, Ph.D. Send résumé, two reprints, and addresses of three referees familiar with your work to:

David E. Pleasure, M.D.
514 Abramson Research Building
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ASSISTANT/ASSOCIATE PROFESSOR of Vegetable Crops—Penn State: A twelve-month, tenure-track position with an extension (75%) and research (25%) responsibility in commercial vegetables with major emphasis on potatoes is available in the Department of Horticulture. The starting date for this position is January 1, 1997. A Ph.D. in horticulture or related plant science discipline is required. Salary is competitive and commensurate with background and experience. Evaluation of applications will begin August 1, 1996 and continue until a suitable candidate is identified. Send a letter of application, résumé, academic transcripts, and three letters of recommendation to: Dr. E. Jay Holcomb, Department of Horticulture, 103 Tyson Building, Box SCI, The Pennsylvania State University, University Park, PA 16802. An Affirmative Action/Equal Opportunity Employer. Women and minorities encouraged to apply.

The Section of Cardiology, Department of Internal Medicine at Yale University, seeks an M.D. or M.D./Ph.D. investigator at the **ASSISTANT/ASSOCIATE PROFESSOR** level in the area of vascular biology oriented to gene therapy. Demonstrable research experience and successful funding efforts necessary. The main responsibility of this individual will be to expand the fundamental vascular biology efforts at Yale and develop a cardiovascular gene therapy research program. Interested candidates, please send curriculum vitae and three letters of reference to: Barry Zaret, M.D., Chief of Cardiology, c/o Jacqueline McKim, Yale Department of Internal Medicine, 135 College Street, New Haven, CT 06510-2483 by July 31, 1996. Yale is an Affirmative Action/Equal Opportunity Employer. Applications from women and members of minority groups are encouraged.

POSITIONS OPEN

TWO POSITIONS IN BIOLOGY Ecologist/Environmental Biologist and Geneticist

The Department of Biology at the University of South Dakota seeks candidates for two anticipated nine-month tenure-track **ASSISTANT PROFESSOR** positions beginning in August 1996. Responsibilities include but are not limited to: establishing an active research program; directing M.A. and Ph.D. research projects; and teaching courses in Environmental Science, Plant Ecology, and Conservation Biology (Ecologist/Environmental Biologist) or Genetics and Evolution (Geneticist). Minimum requirements: Ph.D. in appropriate field and potential for excellence in teaching and research. Preferred qualifications: teaching experience and postdoctoral research or equivalent. Send letter of interest, curriculum vitae, statement of research interests, up to three recent publications, and the names and addresses of three references to: **Dr. Philip Sudman, Department of Biology, University of South Dakota, Vermillion, SD 57069-2390** for Ecologist/Environmental Biologist position; **Dr. Karen Olmstead** at same address for Geneticist position. Review of applications will begin 19 June 1996 and will continue until suitable candidates are found. *University of South Dakota is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT TO EDITOR GENETICS

This person oversees production of the journal *GENETICS*, ensuring that final copy conforms to standards and that the pre-established publication schedule is met. Strong editorial and communications skills, background in life sciences, and publications experience required. Send résumé and three letters of recommendation to: **Editor-designate Dr. Elizabeth W. Jones, Mellon Institute, Box 65, Carnegie Mellon University, 4400 Fifth Avenue, Pittsburgh, PA 15213. FAX: 412-268-7129.** *An Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITIONS PHARMACEUTICS College of Pharmacy University of New Mexico

The College of Pharmacy at The University of New Mexico has two 12-month tenure-track Pharmaceutics faculty positions at the **ASSISTANT PROFESSOR** rank available August 1, 1996. The selected candidate will provide instruction in the Pharmaceutics sequence of the Professional Programs of the College of Pharmacy.

Minimum requirements are a Ph.D. in pharmaceutics, a record of research, and evidence of the ability to provide instruction for B.S. and Pharm. D. students. Desirable characteristics are: a) a record of quality instruction in a professional curriculum; b) a record of quality graduate instruction; c) postdoctoral experience; and d) evidence of the ability to develop/maintain an extramurally funded toxicology-related research program. The position offers excellent opportunities for collaborative research within the College of Pharmacy, School of Medicine, Cancer Center, and National Laboratories.

Review of applications will begin on June 10, 1996 and continue until the position is filled. Applicants should forward a letter of intent describing career goals, curriculum vitae, and three letters of reference to: **Jerry L. Born, Ph.D., Chair, Pharmaceutics Faculty Search Committee, College of Pharmacy, University of New Mexico, Albuquerque, NM 87131. Telephone: 505-277-3657; FAX: 505-277-6749; Email: jborn@unm.edu.** *The University of New Mexico is an Equal Opportunity and Affirmative Action Employer.*

RESEARCH SPECIALIST. Westvaco Corporation has a vacancy in the tissue culture of hardwood tree species. Responsibilities include assisting in all phases of research. Applicants should possess a B.S. or M.S. degree in biology, botany, plant science, forestry, horticulture, or a closely related field. A strong background in plant tissue culture/micropropagation is essential. Working experience with woody plants is helpful, but not required. *Permanent residency or U.S. citizenship is required.* Please send résumé, college transcripts, and three letters of recommendation by July 15, 1996 to: **Cindy L. McCord, Westvaco Corporation, Forest Research, P.O. Box 1950, Summerville, SC 29484.** For more information about this position, please contact **Cindy McCord, Telephone: 803-851-4733; FAX: 803-875-7185; E-mail: cmccord@awod.com.**

POSITIONS OPEN

CLINICIAN SCIENTIST Human Genetics Program

Geisinger Clinic, the Henry Hood Research Program, is seeking a recently trained **PHYSICIAN** to practice human genetics in the Pediatrics and Obstetrics/Gynecology divisions and to do laboratory research in molecular genetics. The primary appointment will be in the Clinical Research Program with up to 25% time devoted to clinical activities. This position is funded by an endowment. Research funds include budgeted monies for supplies and technical support. Additional support can be obtained through grants. The Basic Research Program has well-established research in signal transduction, cell cycle regulation, gene transcription, extracellular matrix proteins, and function of oncogenes. Research may be conducted independently or collaboratively with members of the Basic Research Program. Successful candidates should be Board-certified/Board-eligible in the field of their clinical training. The Geisinger Medical Center is a 548-bed tertiary care and academic institution providing care for 2.3 million in eastern and central Pennsylvania. The Medical Center is located in Danville, Pennsylvania. You can enjoy the advantages of living in a small town with low crime, good schools, and reasonable housing costs and still do research and practice medicine in a large urban style medical center. Please send your curriculum vitae along with all inquiries to: **Howard E. Morgan, M.D., Weis Center for Research, Geisinger Clinic, 100 North Academy Avenue, Danville, PA 17822-2601. FAX: 717-271-6701.** *Equal Opportunity Employer. Minority/Female/Disabled/Veteran.*

DIRECTOR OF RESEARCH FACULTY POSITION

Department of Obstetrics and Gynecology is searching for a Ph.D. with biomedical, basic science background to direct resident research, facilitate faculty research, teach basic sciences, assist in direction of Rural Outreach Programs, and develop collaborative programs within and outside the University. Send curriculum vitae, statement of research interest, and three letters of reference. Salary and rank commensurate with experience. Please respond to:

**Carol A. Bergquist, M.D.,
Professor/Regional Chairman
Texas Tech University HSC
800 West 4th Street
Odessa, TX 79763**

Texas Tech University Health Sciences Center is an Equal Opportunity Employer.

ASSOCIATE PROFESSOR

The Department of Veterinary Anatomy and Cell Biology is seeking a cell/molecular biologist for a **TENURE-TRACK FACULTY** position at the Associate Professor level. Applicant should have Ph.D. or equivalent degree in a biological or biomedical science, postdoctoral experience, research background in cell/molecular biology, ability to teach a course in the professional curriculum, and extramural funding. Application deadline is July 25, 1996, or until suitable applicant is found. Submit curriculum vitae; names, addresses, and telephone numbers of at least three references; and a summary of current research to: **Dr. Gary Wise, Professor and Head, Department of Veterinary Anatomy and Cell Biology, School of Veterinary Medicine, Louisiana State University, Baton Rouge, LA 70803.**

TWO POSTDOCTORAL POSITIONS VANDERBILT UNIVERSITY

To study basic aspects of viral pathogenesis and vaccine development. One position will focus on how vaccine antigens and the cytokine milieu influence the composition of immune responses in a murine model of respiratory syncytial virus. The other project will focus on basic aspects of HIV particle assembly and the evaluation of human immune responses to candidate AIDS vaccines. Applicants should have experience in molecular biology, virology, animal care, and cellular immunology. Send curriculum vitae to: **Barney S. Graham, M.D., Ph.D., A-3310 MCN, Vanderbilt University School of Medicine, Nashville, TN 37232. Telephone: 615-343-3717; FAX: 615-343-6160; Email: Barney.Graham@mcmail.vanderbilt.edu.**

Vanderbilt University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are strongly encouraged to apply.

POSITIONS OPEN

FACULTY POSITIONS INSTITUTE OF HUMAN VIROLOGY MEDICAL BIOTECHNOLOGY CENTER University of Maryland Biotechnology Institute

Full-time, tenure/tenure-track **FACULTY** positions in the newly established Institute of Human Virology (IHV) available from July 1, 1996. Applicants should have a Ph.D. and/or an M.D.; postdoctoral training; and a record of research excellence in cellular and molecular virology, molecular biology, gene transfer and expression, and protein biochemistry, especially as they apply to human viruses and immuno-deficiency, cancer, and other chronic diseases. Candidates should have an established record of extramurally funded research or potential to obtain funding. Joint appointments will be made in basic science or clinical departments at the University of Maryland at Baltimore. The IHV, established in 1995, fosters multidisciplinary research on human viral diseases. A very attractive package, including space in the new Medical Biotechnology Center research facility and start-up funds, is available. The Medical Biotechnology Center is located in downtown Baltimore, on the University of Maryland Professional Schools Campus. Send a letter of application, curriculum vitae, description of current and future research plans (up to three pages), and names and addresses of three references to: **Dr. Robert C. Gallo, Institute of Human Virology, Medical Biotechnology Center, University of Maryland Biotechnology Institute, 725 West Lombard Street, Baltimore, MD 21201.** *The University of Maryland System is an Equal Opportunity/Affirmative Action Employer.*

TENURE-TRACK POSITION ZOOLOGY Terrestrial Ecologist

Candidates with at least one year of postdoctoral experience should submit curriculum vitae and list of publications, and request three letters of reference to be sent to: **The Chairman, Department of Zoology, Tel Aviv University, Ramat Aviv 69978, Israel, not later than June 16, 1996.**

HEAD, DEPARTMENT OF PHYSIOLOGY AND PHARMACOLOGY

The College of Veterinary Medicine, The University of Georgia, invites applications and nominations for **PROFESSOR** and **HEAD** of the Department of Physiology and Pharmacology. Qualifications include the Ph.D. degree; preference will be given to applicants with the D.V.M. or equivalent degree. The candidate must have a nationally recognized record in teaching and research; administrative skills are desirable. The department emphasizes professional teaching, graduate education, and research in physiology, pharmacology, and toxicology, including participation in the university-wide toxicology program. Inquiries and applications, which should include a letter of intent, curriculum vitae, and the names of four references, should be sent to: **Dr. James N. Moore, College of Veterinary Medicine, The University of Georgia, Athens, GA 30602. Telephone: 706-542-6326; FAX: 706-542-8833; Email: moore.j@calc.vet.uga.edu.** Applications received by September 1, 1996 are assured of full consideration. Starting date is negotiable. *The University of Georgia is an Equal Opportunity/Affirmative Action Institution.*

POSTDOCTORAL POSITIONS INSTITUTE OF HUMAN VIROLOGY MEDICAL BIOTECHNOLOGY CENTER University of Maryland Biotechnology Institute

POSTDOCTORAL POSITIONS are available in the newly established Institute of Human Virology. Areas of study include cellular and molecular virology, molecular biology, gene transfer and expression, and protein biochemistry, especially as they apply to human viruses and immuno-deficiency, cancer, and other chronic diseases. Applicants should hold a Ph.D. or M.D. degree and have basic research experience. Prior expertise in virology, immunology, cellular or molecular biology desired. Send a letter of application, curriculum vitae, a summary of relevant experience, and names of three references to: **Dr. Robert C. Gallo, Institute of Human Virology, Medical Biotechnology Center, University of Maryland Biotechnology Institute, 725 West Lombard Street, Baltimore, MD 21201.** *The University of Maryland System is an Equal Opportunity/Affirmative Action Employer.*



The Division of Cardiovascular Diseases of the Mayo Clinic and Foundation invites applications for an established investigator position at the rank of Associate or full Professor. Applicants should have an M.D. or Ph.D. degree and an established record of accomplishment in basic cardiovascular research such as in molecular or cellular biology which focuses upon endothelial, vascular smooth muscle or cardiac myocyte biology. Excellent institutional resources and long-term support are available. Written applications including CV, three letters of recommendation and a description of research interests should be sent to: **John C. Burnett, Jr., M.D., Cardiovascular Chair for Research, Director, NIH Cardiovascular Research Training Program, Mayo Clinic, 200 First Street, SW, Rochester, MN 55905.** Applications will be considered until September 1, 1996. *Mayo Foundation is an affirmative action and equal opportunity educator and employer.*



**Robert C. Byrd Health Sciences Center
of West Virginia University
DIRECTOR
Mary Babb Randolph Cancer Center**

The West Virginia University School of Medicine is seeking a Director of the Mary Babb Randolph Cancer Center. The newly constructed cancer center contains state-of-the-art technology for the diagnosis and treatment of all forms of cancer, merging quality patient care with education, research, and outreach programs.

The position requires a demonstrated physician scientist with the ability to plan, develop, and implement programs critical for cancer center success. He/She must be Board-certified in a relevant medical specialty and have proven experience in academic medicine. He/She must be a strong, effective leader, both in process and style, and have an ability to incorporate leadership skills with a vision for the development of multidisciplinary cancer research, treatment, and outreach programs. The ability to interact effectively with faculty from all segments of the university, health care practitioners, elected state and public officials, and the lay public is required. The Director will have responsibility for and authority over all cancer center personnel, facilities, core services, equipment, and budgets, and will report directly to the Vice President for Health Sciences/Dean, School of Medicine.

The search will remain active until filled; however, those applications received by June 28, 1996 will be assured of consideration during the first cycle of review. Applicants should send curriculum vitae and names of three references to:

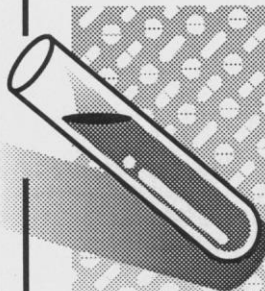
Mathis P. Frick, M.D.

**Chairman, Department of Radiology
P.O. Box 9235, WVU School of Medicine
Morgantown, WV 26506-9235**

*An Equal Opportunity/Affirmative Action Employer
Women and minorities are encouraged to apply*

RESEARCH & DEVELOPMENT

Insight scientific discovery



Glaxo Wellcome, the world's largest pharmaceutical company, continues to reinforce its commitment to pioneering research and development efforts that respond to the existing and emerging needs of the global community. To explore new challenges in healthcare research, bring your expertise to our team in the following opening at our Corporate Headquarters located in Research Triangle Park, NC.

SR. SCIENTIST/ RESEARCH INVESTIGATOR II (Protein Crystallographer)

As a key member of our **Structural Chemistry Department**, the selected individual will be responsible for all aspects of protein crystallography, including obtaining crystals to refine structures. Duties will also include interacting and participating with medicinal chemists in the lead optimization process.

This position requires a Ph.D. in Protein Crystallography, or a related area, with 1-2 years experience in all aspects of protein crystallography. The ability to generate protein for crystallization trials, optimize crystallization conditions, collect/analyze diffraction data and fit electron density maps is required. Candidate must have a strong desire to interact with medicinal chemists in the design of drug molecules.

The rewards of working at Glaxo Wellcome include an excellent salary and a flexible benefits package. For confidential consideration, send your resume, **which MUST include position title and salary history**, to: **Human Resources, Job #ASC1753-1, Glaxo Wellcome, P.O. Box 13398, Research Triangle Park, NC 27709.** (No Phone Calls or Agency Referrals, Please) An Equal Opportunity Employer M/F/D/V

GlaxoWellcome

Working Together for A Healthier World

POSITIONS OPEN

FACULTY POSITION

**Environmental Policy Analysis and Management
Department of Environmental Sciences
and Engineering**

Applications are invited for a **TENURE-TRACK** position at any level in environmental policy analysis and management. The successful candidate will hold at least one degree in a science or engineering field and a Ph.D. in engineering, environmental science, policy analysis, or closely related field. The successful candidate will be expected to teach courses in one or more of the following areas: risk assessment, decision theory, and environmental control strategies and systems optimization. The area of environmental policy specialization is open, but expertise in at least one of the following areas would be an advantage: air quality, hazardous and solid waste, water quality, or environmental health. For full consideration, applications must be received by September 30, 1996, but will be accepted until the position is filled. For further information, please contact: **Dale Whittington, Director of the Environmental Management and Policy Program and Chair of the Search Committee, Department of Environmental Sciences and Engineering, CB Number 7400, School of Public Health, University of North Carolina at Chapel Hill, Chapel Hill, NC 27599. Telephone: 919-966-7645; FAX: 919-966-7646; Email: Dale.Whittington@unc.edu.** The University of North Carolina is an Equal Opportunity Employer. Women and minorities are particularly encouraged to apply.

FULL-TIME RESEARCH/TEACHING POSITIONS

**Faculty of Dentistry
McGill University**

Applications are invited from dentists with graduate training and from scientists holding Ph.D. degrees for full-time **FACULTY POSITIONS**. The Faculty of Dentistry is revising its undergraduate curriculum and is expanding its graduate programs in General Practice and Oral Health Sciences (M.Sc. and Ph.D.). Three research areas are being developed in collaboration with the Faculty of Medicine: oropharyngeal cancer (including oral rehabilitation and tissue engineering), chronic pain, and hard tissue biology (including biomaterials). Successful candidates will be expected to make major contributions to these missions and to obtain external research funding.

Applications will be considered until October 1, 1996 and should be sent to the following address, accompanied by a detailed curriculum vitae and the names and addresses of two referees:

**Dr. James P. Lund, Dean
Faculty of Dentistry
McGill University
3640 University Street, Suite M/28
Montreal, Quebec H3A 2B2 Canada**

The University is committed to Equity in Employment. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada.

Behavioral Ecology/Evolution. Rice University seeks to fill a Huxley **RESEARCH INSTRUCTORSHIP**, a two-year research/teaching position, for fall 1996. Preference will be given to candidates interested in collaborative research with **Professors Queller and Strassmann** on molecular or behavioral studies of insect sociality. The teaching commitment is a spring-semester course in evolution the first year (spring) and a fall-semester course in behavioral ecology the second year. Applications, including curriculum vitae, summary of research and teaching interests, and three letters of recommendation, should be sent by July 3, 1996 to: **Huxley Search Committee, Ecology and Evolutionary Biology Department, MS 170, Rice University, 6100 Main, Houston, TX 77005-1892. FAX: 713-527-5232.** Rice University is an Equal Opportunity/Affirmative Action Employer.

TWO POSTDOCTORAL positions available immediately to study 1) the regulation and structure-function relationship of heme-regulated eIF-2 α kinase, and 2) the physiological role of HRI in erythroid development and the transcriptional regulation of HRI gene. Experience in cell culture and molecular biology is essential. Send curriculum vitae and three letters of reference to: **Dr. Jane-Jane Chen, Harvard-MIT Division of Health Sciences and Technology, E25-545, MIT, Cambridge, MA 02139. FAX: 617-253-3459; Email: j-jchen@mit.edu.**

POSITIONS OPEN

POSTDOCTORAL POSITION University of Pennsylvania

POSTDOCTORAL POSITION available for an individual interested in the study of developmental control of eukaryotic gene expression. Specific systems under study include activation of the human globin and human growth hormone gene clusters and stabilization of their encoded mRNA. *In vitro*, cell-based, and transgenic systems are being utilized to analyze nucleic acid-protein interactions which mediate both pre- and post-transcriptional controls. Qualified candidates should possess a Ph.D. in molecular biology or related field.

Please forward a curriculum vitae and the names and telephone numbers of three references to: **University of Pennsylvania School of Medicine, Department of Genetics, Attention: Dr. Stephen A. Liebhaber, 415 Curie Boulevard, Philadelphia, PA 19104-6145.** Equal Opportunity Employer.

Applications are invited for **FOUR POSITIONS** in the Center for Molecular Medicine and the Center for Research in Environmental Science and Toxicology at Clark Atlanta University in the following areas: virology/immunology, biochemistry/molecular biology, and cell biology. A Ph.D. degree with postdoctoral experience in one of the appropriate areas is required. The candidate is expected to develop an active research program and to pursue extramural research support, and is also expected to participate in undergraduate and graduate student training. Deadline for application is June 15, 1996. Submit curriculum vitae, three letters of reference, and a brief description of research plan to: **Dr. Juarine Stewart, Director, RCMI Program, Clark Atlanta University, James P. Brawley Drive at Fair Street, SW, Atlanta, GA 30314. FAX: 404-880-6756.** Underrepresented minorities and women are particularly encouraged to apply.

POSTDOCTORAL RESEARCH ASSOCIATE REGULATORY PEPTIDE SCIENCE

The appointee will join a group of chemists and biologists to contribute to studies on structure-activity relationships in selected peptides including tachykinins, gastrin, and growth factors, using cell culture, radioligand receptor binding, and organ bath pharmacology. The position is open from July 1, 1996 and is renewable annually. The salary is \$22,000 to \$27,500 per annum together with University benefits. Applicants should supply a curriculum vitae and the names of three referees to: **Dr. Richard F. Murphy, Chairman, Department of Biomedical Sciences, Creighton University, School of Medicine, 2500 California Plaza, Omaha, NE 68178. FAX: 402-280-2690.** Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION University of Toronto

A position is available to study the pathogenesis of Creutzfeldt-Jakob Disease, using transgenic and biochemical approaches. Candidates should have a Ph.D. or equivalent degree. The successful applicant will have a strong background in molecular genetics and the analysis of protein structure and function. Replies with curriculum vitae and three letters of reference should be sent to: **Dr. David Westaway, Centre for Research in Neurodegenerative Diseases, University of Toronto, Tanz Building, 6 Queen's Pk. Cr. W., Toronto, Ontario M5S 3H2 Canada. FAX: 416-978-1878.**

POSTDOCTORAL POSITION available immediately to study the regulation of tyrosine phosphorylation during T cell activation. Familiarity with molecular biology or basic biochemical techniques is required. Send curriculum vitae and names of three references to: **Dr. Hanne Ostergaard, Department of Medical Microbiology and Immunology, 860 Medical Sciences Building, University of Alberta, Edmonton, Alberta T6G 2H7 Canada. FAX: 403-492-0368; Email: hanne.ostergaard@ualberta.ca.**

POSTDOCTORAL POSITION available immediately to study cellular and molecular mechanisms by which the microtubule arrays of neuronal axons and dendrites are established. Previous experience in cytoskeleton or cellular neuroscience is required. Send curriculum vitae and three letters of reference to: **Dr. Peter W. Baas, Department of Anatomy, University of Wisconsin Medical School, 1300 University Avenue, Madison, WI 53706. Email: pwbaas@facstaff.wisc.edu.**

POSITIONS OPEN

MOLECULAR IMMUNOLOGY/ MICROBIOLOGY Postdoctoral Fellow Position

A **POSTDOCTORAL FELLOW** position is available for at least two years for NIH-funded studies on immune-modulated pathogenesis in a murine model of *Chlamydia pneumoniae* lung infection. A Ph.D. degree in immunology/microbiology, with emphasis on cellular immunology and molecular biology, is required. The minimum starting salary is \$25,000 plus benefits, dependent on qualifications. Send curriculum vitae, a brief summary of research experience and interests, and names of three references to: **Dr. Bernhard Kaltenboeck, Department of Pathobiology, 270 Greene Hall, Auburn University, AL 36849-5519. Email: kaltebc@vetmed.auburn.edu.** Review of applications will begin immediately, and will continue until the position is filled. Auburn University is an Affirmative Action/Equal Opportunity Employer. Minorities and women are encouraged to apply.

POSTDOCTORAL POSITIONS in Signal Transduction Mechanisms are available immediately to study the Respiratory Burst Oxidase and cell signaling involving Phospholipase D. Requires Ph.D. and experience in two or more of the following areas: signal transduction, recombinant DNA, protein expression, enzymology, lipid biochemistry, structural biology. Send curriculum vitae and a list of references to: **Dr. David Lambeth, Department of Biochemistry, Emory University School of Medicine, Atlanta, GA 30322-3050. Email: dlambe@bimcore.emory.edu.** Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION available in biomolecular NMR. Projects include folding, dynamics and structure of globular proteins and triple-helical collagen-like peptides. NMR facilities include state-of-the-art 600 and 500 MHz spectrometers. Send curriculum vitae and the names of three references to: **Professor Jean Baum, Department of Chemistry, Rutgers University, Piscataway, NJ 08855.**

THE NEUROSCIENCES INSTITUTE LA JOLLA Molecular Neurobiology

Applications are invited for the **POSTDOCTORAL POSITION** of Junior Fellow in Experimental Neurobiology to study biological mechanisms underlying formation, release, and disposition of anandamide, an endogenous arachidonic acid derivative that activates brain cannabinoid receptors. Applicants should have experience with molecular biology techniques and a background in molecular pharmacology. Fellows will receive stipends appropriate to their qualifications and experience. Submit a curriculum vitae, statement of research interests, and the names of three references to: **Dr. Daniele Pionelli, The Neurosciences Institute, 10640 John Jay Hopkins Drive, San Diego, CA 92121. FAX: 619-626-2099.**

POTASSIUM CHANNEL STRUCTURE

A **POSTDOCTORAL POSITION** is available immediately to study the structural dynamics of voltage-dependent potassium channels using spectroscopic techniques. The project involves multiple methodological approaches, including large scale membrane protein expression and purification, site-directed mutagenesis, EPR spectroscopy, and electrophysiology. Experience in molecular biology required. Send curriculum vitae and the names, addresses, and telephone numbers of three references to: **Eduardo Perozo, Department of Molecular Physiology and Biological Physics, Box 449, University of Virginia, Charlottesville, VA 22908. FAX: 804-982-1616. Email: epero@virginia.edu.**

CARDIOVASCULAR THROMBOSIS RESEARCH JOHNS HOPKINS UNIVERSITY

POSTDOCTORAL POSITION to study platelet cellular and molecular biology, functional differences in platelet polymorphisms (*NEJM*, 334:1090, 1996), genetic risk factors for vascular disease, integrin gene regulation, and gender differences in platelet function. Send curriculum vitae and names of three references to: **Paul F. Bray, M.D., Ross 1015, Johns Hopkins University, 720 Rutland Avenue, Baltimore, MD 21205. Telephone: 410-955-7417; Email: pfb@welchlink.welch.jhu.edu.** An Affirmative Action/Equal Opportunity Employer.



CLINICIAN-EDUCATOR Assistant/Associate Professor

The Department of Pathology and Laboratory Medicine at the University of Pennsylvania invites applications for a clinician-educator track position, at the Assistant/Associate Professor level, to direct and administrate the research core-facility and clinical flow cytometry laboratories in the Department. The position will be available beginning no later than January 1, 1997. The candidate must hold M.D., Ph.D., or M.D./Ph.D. degrees and have broad experience in the clinical and research applications of flow cytometry. The successful applicant will have excellent communication and administrative skills and will direct and expand a broad, active program with current strengths in neoplastic and immunological disorders. The applicant will also be expected to participate in the development of a clinical research program in either cancer or autoimmunity. The environment for collaborative research within the Department and at the University of Pennsylvania is outstanding, including the presence of the Cancer Center, the Institute for Medicine and Engineering, the Human Genome Center, and the Institute for Human Gene Therapy. Curriculum vitae, a statement describing previous experience, and the names of three references should be submitted by September 1, 1996 to: Dr. Steven Spitalnik, Chairman of the Search Committee, Department of Pathology and Laboratory Medicine, 220 John Morgan Building, University of Pennsylvania, Philadelphia, PA 19104-6082. The University of Pennsylvania is an Affirmative Action/Equal Opportunity Employer.



KENDALL-MAYO FELLOWSHIP IN BIOCHEMISTRY

Mayo Foundation is now considering applications from highly qualified candidates for appointment as the Kendall-Mayo Fellow in Biochemistry. This nationally competitive award, in recognition of outstanding promise for a research career, will support up to two years of training with any of more than three dozen internationally recognized staff investigators working in modern facilities with state-of-the-art instrumentation. Several research opportunities in biochemistry at Mayo exist. Interested applicants are directed to the Mayo Graduate School site on the World Wide Web (<http://www.mayo.edu/mgs/mgsareas.html>) for specific information on the research interests of Mayo faculty. Appointments may begin as early as July 1, 1997. Salary and benefits will be determined by the successful candidate's experience but will be competitive with the salaries offered by the best fellowships available nationally at the Postdoctoral/Research Associate level. There is also an attractive package of benefits and an institutional allowance to support travel to scientific meetings. Applicants should hold a doctoral degree in one of the life sciences or medicine with some research experience either in a formal graduate program or as a postdoctoral trainee. Applications for this program should include a curriculum vitae, bibliography, three letters of recommendation, and a statement of research interests and career goals, and should be submitted to Ms. Cheryl Nelson, Secretary, Personnel Subcommittee of the Research Committee, Mayo Foundation, Rochester, Minnesota 55905, by August 1, 1996.

Mayo Foundation is an affirmative action and equal opportunity educator and employer.

CHAIR

DEPARTMENT OF BIOMEDICAL SCIENCES UNIVERSITY OF SOUTH ALABAMA

Applications are invited for the position of Chairperson of Biomedical Sciences. Biomedical Sciences is an undergraduate department whose unique mission is to provide a strong undergraduate basic medical sciences degree program for premedical and pre-Ph.D. students. The program also provides service teaching for other health professions students.

Successful applicants will have an earned doctorate in either physiology or pharmacology and must (1) have a distinguished record in teaching and in research; (2) have proven leadership capability and administrative skills; (3) have strong interpersonal skills including the ability to communicate effectively with internal and external constituencies; and (4) have a strong commitment to undergraduate education in basic medical sciences.

Application deadline: June 30, 1996 or until filled.

Send letter, c.v., and 3 letters of reference to: Dr. Daniel E. Sellers, Associate Dean, College of Allied Health Professions, 1500 University Commons, University of South Alabama, Mobile, AL 36688.

The University of South Alabama is an EOE, Affirmative Action Employer. M/F/D



FELLOWSHIPS IN MOLECULAR NEURO-ONCOLOGY

Three 2-3 year fellowships in molecular neuro-oncology are offered for qualified M.D., Ph.D., and M.D./Ph.D. applicants interested in studying the molecular genetic and molecular biologic basis of central nervous system tumor development. Individuals receiving these appointments will participate in a multidisciplinary neuro-oncology program within the Mayo Cancer Center, Rochester, MN. Areas of potential investigation include receptor tyrosine kinase signal transduction, cell cycle regulation, mapping/identification of tumor suppressor genes, and investigation of the inherited basis of glial tumor development. Salary will be determined by the successful candidate's experience. There is also an attractive benefit package. Mayo Foundation is a non-profit, physician-led clinical practice integrated with education and research in a unified multi-campus system. Interested individuals should send copies of their curriculum vitae and three references to Dr. David James and Dr. Robert Jenkins, Division of Experimental Pathology, 9th Floor Hilton Building, Mayo Clinic and Foundation, Rochester, MN 55905.

Mayo Foundation is an affirmative action and equal opportunity educator and employer.

POSITIONS OPEN

RESEARCH ASSOCIATE for university in central Ohio. Planning and conducting research on proteins secreted by the salivary glands of ticks; overexpressing proteins in eukaryotic and prokaryotic systems for use in bioassays to determine their functional roles in the tick feeding process; cloning and sequencing of genes that code for these proteins; using gel electrophoresis to separate proteins, and immunological probes (immunoblotting) to identify specific ones on the gels that ticks secrete during feeding; conducting *in situ* hybridizations to determine when these proteins are manufactured in tick salivary glands during the lengthy feeding process; assisting in bioassays (e.g., human platelets, vascular smooth muscle, immunological cells) characterizing the multifaceted roles for gland proteins; compiling, analyzing, and evaluating research findings for critical comparison to pertinent scientific literature and for reporting results to granting agencies, publishing in books and journals; training and supervising research staff; attending scientific meetings to present research results to peers. Master's in biochemistry or microbiology and one year of experience in above-described duties or one year of experience in biological research including the following techniques: recombinant DNA technology, protein purification (including use of automated systems), protein assays (quantitative and activity), electrophoresis and immunological detection techniques, and characterizing proteins, as well as culturing cells in the laboratory (bacteria and/or tissue culture). One year of experience in lab supervision. Experience may have been gained during or after required degree. 40 hours per week, 8 am to 5 pm, Monday through Friday, \$22,164. Send two résumés and cover letters (no calls) to: **ES SP Prgrms, Reference Number 1772, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216.**

POSTDOCTORAL POSITION

Immediate opening to study protein targeting/translocation into thylakoid membranes. Thylakoid proteins are imported into chloroplasts and then localized by several precursor-specific thylakoid pathways that employ distinct targeting signals and translocation components (e.g., *Science*, 266:796-798, 1994; *Proc. Natl. Acad. Sci. U.S.A.*, 92:3789-3793, 1995). Biochemical and molecular biological experience is required. Send curriculum vitae and three letters of reference to: **Kenneth Cline, Horticultural Sciences, Box 110690, University of Florida, Gainesville, FL 32611. Email: kcc@icbr.ifas.ufl.edu.**

POSTDOCTORAL POSITION Genetic Determinants of Protein Structure

A **POSTDOCTORAL** position is available for a genetics-intensive study of basic principles of protein structure, using the lysozyme of bacteriophage T4. Techniques include directed and random mutagenesis, PCR, protein production and purification, characterization of stability and enzymatic activity. Requirement: Ph.D. in genetics, biochemistry, microbiology, or biochemistry. Send curriculum vitae, summary of research interests, and names of three references to: **A. R. Poteete, Molecular Genetics and Microbiology Department, University of Massachusetts Medical Center, 55 Lake Avenue North, Worcester, MA 01655.**

POSTDOCTORAL FELLOW/ASSOCIATE RESEARCH SCIENTIST. Position available for a Ph.D. to study the molecular biology of parathyroid hormone-related protein receptors. Experience with molecular biology and *Xenopus* oocyte technology is required. Salary commensurate with experience. Please send letter describing research interests, curriculum vitae, and names of three references to: **John J. Orloff, M.D., FMP 1, Yale University School of Medicine, 333 Cedar Street, P.O. Box 208020, New Haven, CT 06520-8020. Yale is an Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION to examine glutathione-regulated cellular defense mechanisms against electrophilic compounds and heavy metals. Experience with membrane protein isolation or cDNA cloning is desirable. U.S. citizenship or permanent residency status is necessary for eligibility in NIH-sponsored Toxicology Training Grant. Send curriculum vitae and names of three references to: **Dr. Ned Ballatori, Department of Environmental Medicine, University of Rochester School of Medicine, Rochester, NY 14642. Email: ballatorin@envmed.rochester.edu. Equal Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

WAYNE STATE UNIVERSITY PROSTATE CANCER INITIATIVE FACULTY POSITIONS

SENIOR POSTDOCTORAL RESEARCH ASSOCIATE position available July 1, 1996 for individual with Ph.D. or equivalent degree in cellular and/or molecular biology. Must have strong laboratory experience and background in molecular and cellular biology in addition to three years of postdoctoral experience. Preference will be given to candidates with demonstrated research ability and strong communication skills. Project involves the study of bioactive lipids in programmed cell death. Program will examine the genetic regulation of apoptosis by bioactive lipids in normal and tumor cells. This work entails state-of-the-art molecular and cellular biological techniques. Minimum salary: \$32,000 dependent upon experience. Please send: 1) brief statement of research interest, capabilities, and goals; 2) curriculum vitae; 3) addresses, FAX/telephone number(s); and 4) three references to: **Dr. Kenneth V. Honn, Professor, 431 Chemistry, Wayne State University, Detroit, MI 48202. Email: KHONN@CMS.CC.WAYNE.EDU. Wayne State University is an Equal Opportunity/Affirmative Action Employer. All buildings, structures, and vehicles at Wayne State University are smokefree. Wayne State University—People working together to provide quality service.**

POSTDOCTORAL POSITION

NIH-funded studies (three years) on the characterization and molecular etiology of membrane glucocorticoid receptors. Will entail broad range of techniques including cell culture, receptor modifications, binding, purification, immunocytochemistry, PCR amplification-based sequencing, and cDNA cloning. Position available immediately. Salary commensurate with background and experience. Send résumé and three letters of reference to: **Bahru Gametchu, Ph.D., Department of Pediatrics, Medical College of Wisconsin, 8701 Watertown Plank Road, Milwaukee, WI 53226. Telephone: 414-456-4195; Email: gametchu@post.its.mcw.edu.**

POSTDOCTORAL POSITION available to investigate the molecular pathogenesis of herpes simplex virus/cytomegalovirus infection. Ongoing NIH-sponsored research involves recombinant DNA techniques, vaccine and antiviral drug evaluation, animal model studies, and development of novel strategies to study CMV pathogenesis. Molecular biology experience required. Send curriculum vitae and two letters of reference to: **Mark Schleiss, M.D., Division of Infectious Diseases, Children's Hospital Research Foundation, University of Cincinnati, 3333 Burnet Avenue, Cincinnati, OH 45229. Email: Schlmo0@chmc.org. Equal Opportunity Employer.**

POSTDOCTORAL RESEARCH ASSOCIATE positions are available in the Laboratory of Molecular Reproductive Biology and Medicine to work on cutting-edge research on biological and clinical relevance of LH/hCG receptor gene expression in nongonadal tissues. Candidates with a strong commitment toward research who are versatile in using the latest molecular biology and neuroscience techniques and different experimental paradigms are invited to apply. Please mail or FAX inquiries to: **Dr. C. V. Rao, Department of Ob/Gyn, 438 MDR Building, University of Louisville Health Sciences Center, Louisville, KY 40292. FAX: 502-852-0881.**

POSTDOCTORAL POSITION available immediately for NIH-sponsored studies of topoisomerases in parasitic protozoa. Requirements include a Ph.D. with demonstrated experience in protein purification and molecular biology and excellent written/spoken English language skills. Send a curriculum vitae plus names and telephone numbers of three references to: **Dr. T. A. Shapiro, Johns Hopkins School of Medicine, 725 North Wolfe Street, Baltimore, MD 21205. Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL RESEARCH FELLOW (PGR) with experience in molecular biology or immunology and retrovirology to conduct research in HIV or CMV pathogenesis, or antiviral resistance. Position available immediately for at least two years. Salary range based on University of California policy. Send curriculum vitae with a list of three references to: **Stephen A. Spector, M.D., Professor, Department of Pediatrics & Center for Molecular Genetics, UCSD, 9500 Gilman Drive, La Jolla, CA 92093-0672. Equal Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

POSTDOCTORAL

An interdisciplinary and integrative **POSTDOCTORAL RESEARCH** position is available immediately in the Departments of Pathology and Urology for a recent Ph.D. or M.D./Ph.D. graduate to study the mechanisms of RNA editing of the mRNA encoding the Wilms' tumor suppressor gene product, WT1. The role of cis-acting sequences in directing site-specific RNA editing and RNA-protein interactions leading to site-specific editosome assembly are being investigated in the context of genetically engineered cells and in human cancer. Applicants with experience in molecular genetics and site-directed mutagenesis or with training in RNA processing mechanisms of lower eukaryotes and who are seeking molecular genetic training in the context of mammalian disease mechanisms and clinically relevant research are particularly encouraged to apply. *Foreign applicants must have green card status or equivalent.* Please send curriculum vitae and the addresses and telephone numbers (Email addresses) of three references to:

**Dr. Harold C. Smith
Departments of Biochemistry & Pathology
Box 626
University of Rochester
Rochester, NY 14642, U.S.A.
Email: hsmith@pathology.rochester.edu**

Women and minorities are encouraged to apply.

POSTDOCTORAL FELLOWS—Phoenix, Arizona. The Barrow Neurological Institute of St. Joseph's Hospital and Medical Center has an opportunity in our Molecular and Cellular Neuroscience group in studies of native or transgenic nicotinic acetylcholine receptors. Investigations encompass electrophysiological (conducted at University of Arizona in Tucson), molecular genetic, protein chemical, immunological, and pharmacological approaches in a unique and dynamic institution. Send curriculum vitae; names and addresses of three references; and a brief statement of research experience, interests, and career objectives to: **R. J. Lukas, Division of Neurobiology, Barrow Neurological Institute, St. Joseph's Hospital and Medical Center, 350 West Thomas Road, Phoenix, AZ 85013. Equal Opportunity Employer.**

INDUSTRY/UNIVERSITY POSTDOCTORAL

Position available for someone with experience in cell biology and imaging technology to participate in a basic research effort at Merck Research Laboratories in Rahway, New Jersey while employed by Carnegie Mellon University. This collaborative effort will involve research at Merck and Carnegie Mellon. The project is directed toward understanding the effects of immunoregulators on lymphocytes using living cells. The term of the position is for two years with a possibility for a third year. Send résumé and two references to: **Director, Science and Technology Center, Carnegie Mellon University, 4400 Fifth Avenue, Pittsburgh, PA 15213. FAX: 412-268-6571.**

COURSES AND TRAINING

RAPID ELECTROCHEMICAL MEASUREMENTS IN BIOLOGICAL SYSTEMS

August 18 to 21, 1996—Recent advances in microsensor technologies have made it possible to measure chemical dynamics in a variety of biological systems with high spatial and temporal resolution. These new biosensors, coupled with high-speed voltammetric recording techniques, allow for rapid and sensitive measurements of molecules such as dopamine, norepinephrine, serotonin, glutamate, and nitric oxide. These new techniques are capable of measuring chemical signals with a spatial resolution in the range of 5 to 30 microns and temporal resolution as high as 1,000 Hz. The goal of this course/workshop is to train students and investigators in the practice of *in vivo* electrochemical recording methods as applied to biological systems. Director: **Greg A. Gerhardt, Rocky Mountain Center for Sensor Technology, University of Colorado Health Sciences Center, Denver.** Application deadline: July 1, 1996; Course Fee: \$670 (includes room and board). To apply contact: **Carol Hamel, Marine Biological Laboratory, Woods Hole, MA 02543. Telephone: 508-289-7401; Email: admissions@mbledu. Forms and information also available at <http://www.mbl.edu>.**

INVESTIGATOR

Protein Biochemistry

SmithKline Beecham is recognized as a global innovator in drug discovery and development. We are currently seeking a skilled Investigator with expert knowledge in the area of Protein Biochemistry.

This individual will be a core contributor in laboratory and library research, with responsibility for creating a collaborative network of individuals dedicated to identifying drug discovery research initiatives. Responsibilities also include providing protein biochemistry expertise, defining molecular targets and/or new technical approaches, and initiating/promoting exploratory research and feasibility studies.

Qualified candidates will possess a PhD in Biochemistry, Bioorganic Chemistry, Enzymology, Protein Biochemistry or related field, and at least one postdoctoral experience with published results. Graduate work must also be published, demonstrating strong theoretical and practical knowledge. Superior scientific presentation skills are equally essential, along with knowledge of computer-based scientific applications.

Located in our state-of-the-art research facility in suburban Philadelphia, SmithKline Beecham offers a competitive compensation/benefits/relocation package. For confidential consideration, please send resume and salary requirements to: SmithKline Beecham Pharmaceuticals, Job Code H6-0168, P.O. Box 2645, Bala Cynwyd, PA 19004. We are an Equal Opportunity Employer, M/F/D/V.



Challenging the natural limits.

SCIENTIST



Genentech is a pace-setting biotechnology company that discovers, manufactures and markets human pharmaceuticals for significant unmet medical needs. Our product pipeline is the richest in the industry and we are the only biotech company with five marketed products. To continue our record of success, we are seeking a Scientist to develop processes for recombinant protein therapeutics.

Your work will involve small scale collaborations with research in the initial discovery of promising proteins, and the recovery development and manufacturing implementation of GMP processes. Documentation of this work in publications, internal reports, patents, and regulatory submissions is key. We seek a team player able to function effectively both leading direct reports and collaborating with other colleagues.

This opportunity requires a PhD or equivalent work experience in Biochemistry, Chemistry, Chemical Engineering, Biology or a related field. Knowledge of protein chemistry (structural and analytical), liquid chromatography and filtration is essential; industrial experience in process recovery and strong leadership skills are highly desirable.

Join us and enjoy our exciting success and progressive benefit package that includes free health club membership, 3 weeks paid vacation, 6 weeks sabbatical after 6 years, fully paid medical/dental/vision coverage, and Company stock purchase opportunities for full time employees. For consideration, send your resume to Genentech, Inc., Human Resources Dept. MCG, 460 St. San Bruno Blvd., South San Francisco, CA 94080. We value creativity at Genentech, but our scanning equipment does not. Please avoid bold, underline or italic type faces. You may also e-mail your resume indicating Dept. code to jobs@gene.com (ASCII files only with a maximum line width of 76 characters). Find out more about Genentech at <http://www.gene.com/>. Genentech is an Equal Opportunity Employer. We value the contributions of our diverse workforce.

Genentech, Inc.

SENIOR SCIENTIST ANALYTICAL BIOCHEMISTRY

NeXstar Pharmaceuticals, Inc. is a growing biotechnology company, headquartered in Boulder, CO. Dedicated to the design, development and manufacture of novel therapeutic agents, we are seeking an energetic and focused individual to join our scientific team.

Our current opportunity is for a Senior Scientist interested in developing analytical methods to evaluate clinically-useful oligonucleotides. To be successful in this position, you will need a strong understanding of methods used to characterize biopolymers. In addition, you will need a working understanding of drug delivery and synthetic chemistry issues. Finally, excellent communication skills and the ability to work in a team environment are essential. We anticipate that qualified individuals will have a Ph.D. in analytical chemistry or related pharmaceutical sciences, and at least three years of industrial or postdoctoral experience.

In addition to being part of a growing and exciting company you will have the advantage of living in Boulder, CO, lauded for its scenic beauty, healthy lifestyle and superior educational standards. We value employee ideas and reward efforts with competitive salaries and excellent benefits. If you are interested please send your c.v. to:

NeXstar Pharmaceuticals, Inc.
Attn: PM, Position #249
2860 Wilderness Place
Boulder, CO 80301

EOE

NEXSTAR
Pharmaceuticals, Inc.

WHEN COMMITMENT AND COLLABORATION COME TOGETHER, ANYTHING IS POSSIBLE.

Working for a company that's as committed to people as it is progress is inspiring. Lilly is such a company, known not only for its innovative health care solutions, but also for its pronounced effort to support individual achievement. By working together, we work better, helping the world manage disease and illness. So join us, and achieve everything you thought possible - and some things you never even imagined.

We offer an excellent salary, comprehensive benefits and the chance to advance with a global leader. For confidential consideration, please submit resume and cover letter suitable for scanning and the names and addresses of three individuals able to provide research-relevant evaluations to: **Eli Lilly and Company, Scientific Recruitment, Reference: ADSCIB105, Lilly Corporate Center, Indianapolis, IN 46285.** Resumes must be received by July 1, 1996. We are an equal opportunity employer dedicated to diversity and the strength it brings to the workplace.

For other job opportunities, please access our Job Bank at:
<http://www.lilly.com> or phone our Jobline: 1-800-892-9121.

**AND EVERYTHING
IS ACHIEVED.**

MS PHARMACOLOGIST

Lilly Research Laboratories has a position available for an individual to study the pharmacology of vascular stroke. An MS in pharmacology is required with 3-5 years of research experience. Proven skill in setting up models of stroke is desirable, as is the ability to understand and carry out biochemical assays. The successful candidate will have knowledge of in vivo pharmacological experiments, in vitro smooth muscle studies and histological methods.

Lilly
Eli Lilly and Company

KNOWLEDGE IS
POWERFUL MEDICINE

FACULTY APPOINTMENTS

Institute for Gene Therapy and Molecular Medicine

Mount
Sinai

SM

The Mount Sinai School of Medicine in New York City is a world leader in medical education, research and patient care. Our **Institute for Gene Therapy and Molecular Medicine** is a strong example of faculty collaboration and our commitment to excellence. We seek outstanding faculty members with specific expertise and a broad range of experience for various ranks of tenured or tenure-track appointments in the following areas:

Cellular, Humoral and Tumor Immunology

Mechanistic studies of antigen processing and presentation, tumor antigen identification and characterization, T, B and NK cell activation and expansion, as well as immune memory and immune tolerance at the cellular and molecular levels.

Stem Cell Biology and Differentiation

Mechanistic studies in hematopoiesis, liver regeneration, muscle and skin development, intestinal epithelial stem cells and neuronal progenitors at the cellular and molecular levels.

Molecular Virology

Mechanistic studies in the molecular biology and genetics of mammalian viruses that can potentially be developed into **novel** recombinant vectors for gene transfer.

Biology of Macromolecular Uptake and Intracellular Transport

Mechanistic studies in synthetic chemistry and molecular biophysics for peptide or lipid-mediated transfer of nucleic acids into target tissues in vivo, the subcellular organelle transport of macromolecules and nuclear translocation.

The successful candidates must have a Ph.D. and/or M.D. degree with a track record of publications in quality peer-reviewed journals in the respective disciplines.

Interested candidates should send a current curriculum vitae and bibliography, plus a short description of past accomplishments, future research interests, and three letters of recommendation to: **Dr. Savio L.C. Woo, M.D., Professor and Director Designate, Institute for Gene Therapy and Molecular Medicine, Box 1496, Mount Sinai School of Medicine, One Gustave L. Levy Place, NY, NY 10029-6574.** EOE.

The Mount Sinai Medical Center

ZYMOGENETICS

○ Seattle, WA

Scientist - Genomic Cloning

ZymoGenetics, a Seattle based biotechnology company located in the historic Lake Union Steam Plant, is looking for a Genomic Cloning Scientist.

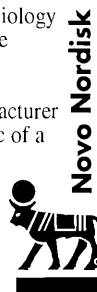
The Molecular and Cellular Biology Department currently has an opening at the Scientist/Sr. Scientist level for a genomic cloning specialist. The position will involve development of at least three overlapping genomics technologies with the aim of integrating knowledge of genomic locus information with expression cloning. Specifically, the technologies developed by the successful candidate will include: (1) efficient exon trapping from YAC clones representing genetic loci of interest and coordination of sequencing trapped exons with external genomics partners; (2) identification of mRNAs from specific tissue sources which can be trapped by physical hybridization to immobilized YAC clones representing disease-associated loci; and (3) efficient cloning of functional activities by introducing cosmid libraries into factor-dependent target host lines and rescuing genes which encode functional activities.

This position requires a Ph.D. in a relevant Genetics/Molecular Biology discipline and at least 2-3 years of post-graduate training relevant to the techniques outlined above.

As a subsidiary of **Novo Nordisk A/S**, the world's largest manufacturer of insulin, **ZymoGenetics** offers an exciting environment characteristic of a small research and development company, along with the scope and stability of a large pharmaceutical corporation. We also offer intellectual challenge, state-of-the-art facilities and a generous benefits package. Please apply by sending your resume or CV, noting reference number **13R196** to:

ZymoGenetics, 1201 Eastlake Avenue East, Seattle, WA 98102.

ZymoGenetics is committed to Equal Opportunity and Diversity.



SIBIA NEUROSCIENCES, INC., is expanding its interdisciplinary research and development on therapeutics for diseases and disorders of the central nervous system. We have established an impressive record in the development of innovative technologies integral to the field of neuroscience and the biopharmaceutical industry. We are now seeking experienced Scientists to support our drug discovery and development efforts for the neuro-pharmaceuticals of the future.

DIRECTOR OF DRUG DEVELOPMENT

In this key role, the selected candidate will be responsible for project management; preclinical and clinical studies and reporting; interaction with CROs, consultants and regulatory agencies; and preparation of INDs. Qualifications include 10+ years' drug development experience in the pharmaceutical industry, and a successful track record in preparing and presenting INDs for submission to the FDA, preferably for novel therapeutic agents in the CNS area. Experience working with the FDA, consultants and CROs required. Background in toxicology or ADME advantageous.

COGNITIVE BEHAVIOR RESEARCH SCIENTIST

This candidate should have a Ph.D. with up to 5 years of postdoctoral experience as a behavioral pharmacologist with expertise in the field of cognitive behavior to join a team consisting of 1 Ph.D.-level scientist and 3 assistants. The position entails the development of rodent models of attention and learning/memory for the screening of novel nicotinic receptor agonists. Extensive experience in cognitive behavior and neuroanatomy in rodents is required. Knowledge of operant behavior is a plus.

Located on San Diego's beautiful La Jolla coastline, SIBIA Neurosciences offers not only a challenging environment in an aesthetically pleasing setting, but also a competitive salary and benefits package. To apply, please send your C.V. and the names of 3 references to: **Lynn Alba, Director of Human Resources, SIBIA Neurosciences, Inc., 505 Coast Blvd., South, Ste. 300, La Jolla, CA 92037, FAX (619) 452-9279, e-mail SIBIA@cerfnet.com.** EOE.

SIBIA
Neurosciences, Inc.

TENURE TRACK POSITION: MOLECULAR GENETICS OF DRUG ABUSE

Tenure track position available to lead a research program that will identify genes contributing to vulnerability to drug abuse. Candidates should have experience in human genetics and molecular genetics, with preference given to expertise in human genetics of nonMendelizing disorders. Position supported by fellows, technical staff, and laboratory space. Candidates must hold M.D. and/or Ph.D. degrees and be U.S. citizens or permanent residents; selectee will be evaluated for tenure within a period not-to-exceed six years. Please send a curriculum vitae with bibliography, statement of research interests and goals (not-to-exceed two pages), and three letters of recommendation to:

G. R. UHL, M.D., Ph.D.
MOLECULAR NEUROBIOLOGY
INTRAMURAL RESEARCH PROGRAM
NATIONAL INSTITUTE ON
DRUG ABUSE/NIH
P O Box 5180
BALTIMORE, MARYLAND 21224

Competitive salary levels,
Equal Opportunity Employer.



DIRECTOR

NATURAL RESOURCES MANAGEMENT

Our firm, an authority in environmental management solutions (NASDAQ:EACO) with 24+ offices nationwide, has a high-profile opportunity for a Director of Natural Resources Management to maximize business development efforts and provide technical direction for eastern operations. Responsibilities may also involve West Coast facilities.

An established industry expert with innate skills in identifying/seizing new business opportunities, you will be the source of environmental sales insight and technical direction for 60+ technical professionals, and in constant collaboration with top management in setting corporate goals. Candidates will offer 10+ years' scientific sales experience, an MS degree (Ph.D. highly preferred), executive communication skills, and a results-oriented style.

Position challenges will broaden and involve possible travel to Mexico, China and beyond. Excellent compensation/benefits can be expected. Please reply to: CDC/#96078, EA Engineering, Science & Technology, Inc., 3468 Mt. Diablo Blvd., Suite B-100, Lafayette, CA 94549. FAX: 510-284-5679. e-mail: cdc@eaeng.mhs.compuServe.com. Equal Opportunity Employer. Women, minorities and disabled candidates are encouraged to respond.

EA® EA ENGINEERING,
SCIENCE, AND
TECHNOLOGY, INC.

KUWAIT UNIVERSITY

FACULTY OF SCIENCE

The Faculty of Science at Kuwait University seeks qualified candidates in marine sciences (marine chemistry, marine geology, marine biology/invertebrates, marine plants/oceanography) with a strong commitment to high quality teaching and research for appointment to the positions of Full Professor, Associate Professor, and Lecturer.

Required qualifications:

- Ph.D. or its equivalent, in the required area
- Research experience and publications
- University teaching experience
- Excellent knowledge of English

Kuwait University offers:

• TAX FREE SALARY

Approximate total salary range as follows, depending on the years of experience and number of accompanying dependents (spouse and children under the age of 18). (1 K.D. is approximately \$3.5 U.S.)

Full Professor: 1310—1470 K.D. monthly

Associate Professor: 1115—1275 K.D. monthly

Lecturer: 827—987 K.D. monthly

- Fringe benefits include: furnished air-conditioned accommodations or house allowance, annual air tickets, free National Health Medical Care, paid mid-term holidays and summer vacations, and gratuity.
- New appointees can apply for financial support for research projects.
- Excellent academic environment.
- Contracts are effective from September, 1997 for a 2-year initial period.

Applications should be accompanied by:

- A complete C.V. with mailing address, telephone and fax number, and e-mail address. Also include: academic qualifications, teaching experience, research and professional/work experience, list of publications in professional journals, and copies of 5 recent papers in the area of interest.
- Names and addresses of 3 references who are well acquainted with the academic and professional work of the applicant.
- All documents must be in English or translated into English.
- Photocopies of passport pages of applicant and accompanying dependents, including pages containing photos, personal data, names of other persons listed on the same passport, the place and date of issue, and expiration date, must be provided.
- For appointment to the position of Lecturer, a very good academic performance in the B.Sc. is required (minimum 3.0 GPA out of 4.0). Please send copies of all transcripts.

Applications may be obtained from:

Embassy of the State of Kuwait
Kuwait University Office
3500 International Drive, NW
Washington, DC 20008
U.S.A.
Tel: 202-363-8055

Applications and supporting documents should be sent by express mail/courier service to:

The Dean
Kuwait University, P.O. Box 5969
Safat, 13060, Kuwait


For inquiries use:

Fax: 011-965-483-6127

E-mail: sinno@kuco1.kuniv.edu.kw

Closing date for receipt of applications is September 30, 1996.

Molecular Biology/Bioinformatics

 Astra is a pharmaceutical company in a phase of rapid growth. Operations, which are highly international, encompass research, production and marketing of pharmaceuticals through subsidiaries, agents and licensees around the world. The Group has approximately 17,000 employees, of whom 6000 are in Sweden. Sales in 1995 totalled 7 billion Canadian dollars.

Astra Pain Control in Sweden is a research company within the Astra Group with about 270 employees. Its products dominate the world market for local anesthetics.

The company has recently established a research and development centre in Montreal, a division of Astra Pharma Inc. Canada, and is actively recruiting for the following position:

Applications are invited for a 2 year post-doctoral position in the Department of Molecular Biology of Astra Pain Research Unit, Montreal.

We are looking for a Ph.D. level molecular biologist or biochemist with special interest in gene cloning. A background in bioinformatics is essential. Practical experience of any of the following would be desirable: management of sequence databases, data mining techniques or development of software tools. We expect that the candidate will implement and develop biocomputing tools to facilitate the discovery of novel genes involved in neuronal control of pain perception.

Astra offers a professional work environment to the successful candidate. If you are motivated by the challenges of this position, please send your résumé, *quoting reference BH-MB*, to: **Astra Pharma Inc., Human Resources Dept., 1004 Middlegate Road, Mississauga, Ont. L4Y 1M4. Fax: (905) 275-2950.**

We thank all applicants for their interest, however, only those being considered will be contacted.

No telephone enquiries or agencies, please.

An Equal Opportunity Employer.



DEAN OF THE MEDICAL SCHOOL The University of Michigan Ann Arbor, MI

The University of Michigan is currently engaged in selecting a Dean of the Medical School. The Dean is the chief academic and administrative officer of the School. The Search Advisory Committee is seeking nominations of physician leaders with distinguished records of achievement and the highest qualities of intellect and character. The committee will begin examining nominations on August 1, 1996.

Please send nominations and applications to:

**Max S. Wicha, M.D.
Chair, Medical School Dean Search
Advisory Committee
The University of Michigan
503 Thompson Street
3088 Fleming Building
Ann Arbor, Michigan 48109-1340**

The University of Michigan is an equal opportunity/affirmative action employer, and actively seeks and encourages expressions of interest from minority and female candidates.

RESEARCH PHYSICIAN

Brookhaven National Laboratory seeks a research physician, with board certification in psychiatry, neurology, radiology, nuclear medicine and/or internal medicine. Imaging experience is desirable. The physician will work with the neuroimaging sciences group in imaging studies involving Positron Emission Tomography (PET), Single Photon Emission Computed Tomography (SPECT) and Magnetic Resonance Imaging (MRI). The studies will focus on functional, neurochemical and pharmacological aspects pertaining to substance abuse, neuropsychiatric disease, oncology and aging.

Applicants should send a curriculum vitae including names and addresses of three references to: **Dr. Nora D. Volkow, Medical Department, Bldg. 490, Brookhaven National Laboratory, Associated Universities, Inc., Upton, Long Island, NY 11973-5000.** BNL is an equal opportunity employer committed to workforce diversity.



Ribozyme Pharmaceuticals, Inc., a leader in the development of ribozyme-based products for pharmaceutical and agricultural applications, is seeking an experienced scientist to join our Pharmacology Group at our state-of-the-art facility in Boulder, Colorado.

Ph.D Level Scientist

Candidate must have 2-5 years of post-graduate experience in the area of *in vivo* pharmacokinetic modeling. Specific experience in the area of oligonucleotide pharmacokinetics is preferred. The position requires the ability to interact with a diverse group of scientists across several disciplines including pharmacology, drug delivery, oligonucleotide chemistry, and cell biology. Please refer to Job #096S.

RPI offers a competitive salary and benefits package, including a stock option plan. For consideration, please send a Curriculum Vitae along with the names of three references to:

**Ribozyme Pharmaceuticals, Inc.
2950 Wilderness Place
Job #096S
Boulder, CO 80301
FAX: (303) 449-6995
E-mail: jobs@rpi.com**

RPI is an equal opportunity employer. No phone calls accepted.



The Science of Agricultural Genetics

SENIOR RESEARCH ASSOCIATE

Nucleic Acid Diagnostics Development (Job #AB-602)

This position will conduct applied research to develop efficient analytical methods and associated instrumentation for the detection of nucleic acids in crop plants. The job will be located in Johnston, IA, in support of a project at the Los Alamos National Laboratory involving single-molecule detection technology. A B.S. in Biology or Chemistry with at least 4 years work experience or a Masters degree with at least 2 years work experience is required. Familiarity with molecular biology methods including PCR, Southern blots, gene cloning and vector construction is desired. Experience with optical or electronic instrument design or construction is preferred.

We offer competitive salaries and excellent, comprehensive benefits such as 401(k), tuition and relocation reimbursement. 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 number by June 21, 1996 to: Pioneer Hi-Bred International, Inc., Attn: PERSONNEL (Job #AB-602), P.O. Box 1004, Johnston, IA 50131-1004.

Pioneer Hi-Bred International, Inc., is the world leader in agricultural genetics. Founded in 1926, we are a publicly held company that invests more than \$115 million in research and product development. Pioneer® brand products are grown in almost every crop-producing continent in the world. At our headquarters in Des Moines, Iowa, we're adding to our Research team.



**PIONEER HI-BRED
INTERNATIONAL, INC.**
*An Equal Opportunity
Employer*



Phytotech

Research Director

Phytotech, Inc. is a developmental stage environmental biotechnology company that is pioneering the use of plants for the treatment and removal of hazardous waste. Phytotech is seeking an experienced R&D director to oversee the scientific development of the company ranging from basic research through field trials.

The Director of Research will be responsible for supervising research on the uptake and translocation of heavy metals from soils and water. This will encompass directing a multidisciplinary group of scientists and engineers in applied aspects of soil chemistry, engineering modeling, plant physiology, agronomy, and molecular biology. The Research Director will also supervise field trials of soil and water treatment by plants. This demanding position requires a Ph.D. in either plant biology, soil chemistry, environmental engineering, or a related discipline; 10+ years of experience in research; and 5+ years of research management experience. Prior experience supervising field trials is a plus.

Please send your c.v. to: **Research Director Search Committee, Phytotech, Inc., 1 Deer Park Drive, Suite I, Monmouth Junction, NJ 08852. FAX: (908) 438-1209.**

As a large pharmaceutical company well established at an international level, our success depends upon the dynamism of our research directed towards the discovery of novel drugs. The objective of our well-situated new Research Centre, located in the outskirts of Paris, is to define the causes and to elaborate novel therapies for the treatment of central nervous system disorders.

We seek to recruit :

BEHAVIOURAL PHARMACOLOGIST

ref. 27875 A

Within our Psychopharmacology Department, the successful candidate will be responsible for initiating and developing behavioural studies aimed at the evaluation of the activity of novel compounds.

A high degree of professionalism and enthusiasm demonstrated in the leadership of a small research team is expected. Holding a PhD and possessing thorough post-doctoral experience, applicants should be familiar with operant techniques and behavioural models of anxiety, depression and/or schizophrenia. Experience with computer programs used in pharmacological data analysis would be desirable.

NEUROCHEMIST

ref. 27875 B

Within a high-level multidisciplinary team, the successful candidate will be involved in a broad research program in neurodegenerative diseases. The incumbent will conduct neurochemical studies applied to models of neurodegeneration. Duties include the technical responsibility of a small research team. Applicants should have a PhD with a strong background in neurochemistry. Extensive HPLC experience is required. A practical experience in central nervous system pharmacology would be an asset.

To apply, please send your curriculum vitae with handwritten letter quoting the appropriate reference to Media System, 6, impasse des Deux Cousins, 75849 Paris Cedex 17, FRANCE.

MARINE STEWARDSHIP COUNCIL PROJECT MANAGER

Salary commensurate with experience

UK Based (Initially)



World fish stocks are in serious trouble. Fish have never been more popular as seafood, nor more threatened as marine wildlife. Nearly everywhere, fisheries that have sustained coastal communities for generations are in serious decline. Indiscriminate fishing practices kill and waste vast amounts of fish and other marine life annually.

The World Wide Fund for Nature (WWF) and Unilever plc/NV have formed a conservation partnership to help reverse this crisis. The two organisations have different motivations, but a shared objective: to ensure the long-term viability of global fish populations and the health of the marine ecosystems on which they depend. Unilever has also pledged to source their fishery products only from sustainable, well-managed fisheries by 2005. Others have followed suit.

WWF and Unilever are working together to create an independent nonprofit Marine Stewardship Council (MSC). Following extensive consultations, the MSC will establish a broad set of principles for sustainable fishing and set standards for individual fisheries. By 1998, products from MSC-certified fisheries will be marked with an on-pack logo. This will allow seafood consumers and retailers to select fish products they know come from sustainable sources.

Unilever and WWF are now seeking to recruit an outstanding individual to manage the development and consultation

process with the opportunity of becoming the first Chief Executive of the Marine Stewardship Council when the organisation is formally created in 1997.

Candidates will need to be enthusiastic advocates, able to approach the diverse interests involved in the endeavour with diplomacy and tact. They must be able to demonstrate:

- The ability to lead, inspire, and motivate all those involved in the project.
- Experience in working with a wide range of people, including consultants, scientists, environmentalists, government officials, and business leaders world wide.
- Excellent communication and interpersonal skills.
- Practical creativity and entrepreneurial flair.

A knowledge of marine fisheries issues would be helpful but is not required. A willingness to advocate new and radically different approaches to complex issues is vital. Language skills would be an asset.

To express your interest in this appointment please apply in strict confidence by sending your CV (with details of relevant experience, remuneration, address, telephone numbers, and E-mail address), quoting Ref: PWFB to Peter Drew at Saxton Bampfylde International plc, P.O. Box 198, Guildford, GU1 4FH, UK (fax 01483 30 30 29) to arrive **not later than 14 June 1996**. We will contact you by 8 July.



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Gene Therapy Program**

Various positions are available for applicants with Ph.D. and strong background in molecular biology and immunotherapy of cancer. Applicants must have demonstrated previous ability through 2-3 years of postdoctoral experience, with publications in the field.

• Positions for scientists at the postdoctoral and senior scientist level are open. Successful candidates will work on the development of new strategies for gene transfer into various cell types toward the applications of gene therapy. Experience in viral transfer technology (including retroviral and adenoviral) is highly desirable, although not essential.

• A position at the postdoctoral or senior scientist level is open for the successful candidate with experience in molecular biology and immunotherapy of cancer to work on a newly discovered gene that is involved in stomach cancer. Antibodies have been raised against this gene product. Experience in molecular biology, immunotherapy of cancer, and antibody radiolabeling for therapeutic approaches is highly desirable.

Candidates should have a Ph.D. degree with a proven record of research in these fields and an interest in gene therapy. Applicants should send their curriculum vitae, a 1-page summary of their research interests, and the names of three references to:

Univ. Prof. Dr. med. Bernd Gänsbacher or **Univ. Prof. Dr. med. Heinz Höfler**
Director, Institute of Experimental Surgery **Director, Institute of Pathology**

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Large Scale Facility for Marine Pelagic Food Chain Research

Scientists are invited to apply for access to the "Large Scale Facility for Marine Pelagic Food Chain Research" at the University of Bergen (UoB) and the Institute of Marine Research (IMR) in Bergen, Norway. The facility offers unique opportunities for research within planktonic food chain dynamics, early life history of fish and shellfish, fish recruitment, aquaculture, and environmental health. Visiting scientists under the project can make use of installations at UoB and IMR either by participating in ongoing research in Bergen or by initiating and proposing new projects. Access to this facility is supported by the European Union under the Access to Large Scale Facilities Activity of the Training and Mobility of Researchers Program (TMR). Only research teams conducting their research in the Member States of the Union and Associated States are eligible to benefit under the present project. Proposals will be selected on the basis of scientific merit through an independent peer review procedure. Access to the facility will be provided free of charge for a maximum of three months and will include all infrastructural, logistical, technical, and scientific support that is normally provided to external users. Travel and subsistence expenses may be reimbursed. For projects starting between September 1 and December 31 this year, the closing date for proposals will be August 1. For projects starting in 1997, the closing date for proposals will be November 1. Application forms and additional information can be obtained at the Internet:

<http://www.uib.no/elin/lsf/>

or from: **Bergen LSF**

Department of Fisheries and Marine Biology

HIB, N-5020 Bergen, Norway

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University of Otago

Te Whare Wananga o Otago
 New Zealand

PROFESSOR OF PHYSIOLOGY

Applications are invited from candidates with a strong record of research and academic leadership in Physiology for appointment to a Chair in Physiology, School of Medical Sciences.

The Department belongs within the School of Medical Sciences in the Faculty of Medicine of the University of Otago. It is the largest Physiology Department in New Zealand and the successful applicant will hold the second Chair in the Department. The Department teaches physiology to both undergraduate and postgraduate students in the Health Sciences (Medicine, Dentistry, Pharmacy, Physiotherapy) and the Division of Science.

The applicant will be expected to provide academic leadership in an active programme of research. The present research interests of the Department are in the fields of neurophysiology, developmental biology, cardio-respiratory physiology, epithelial transport (with emphasis on gut and kidney), cell volume regulation and molecular endocrinology.

The position is open to both medically qualified and non-medically qualified applicants.

Further particulars are available from the Director, Personnel Services, (Fax 64-3-474 1607, Email laurie.hibbert@stonebow.otago.ac.nz). Information about the University of Otago and the Department of Physiology is available on the Internet at <http://www.otago.ac.nz/Physiology/TitlePage.html>.

Applicants should send two copies of their curriculum vitae together with the names, addresses and fax numbers of three referees, to the Director, Personnel Services, University of Otago, PO Box 56, Dunedin, New Zealand (fax 64-3-474 1607) by 28 June 1996. Applications should quote reference number A96/37. Whanau support is welcome at interview.

*Equal opportunity in employment is University policy.
 E tautoko ana Te Whare Wananga o Otago i
 te kaupapa whakaorite whiwhinga mahi.*

AUSTRALIA

CHAIR OF BIOLOGICAL SCIENCES FACULTY OF SCIENCE AND MATHEMATICS

(POSITION No. A104/96)

Applications are invited from distinguished scholars with a strong teaching record, and with a strong on-going record of internationally recognised research, for the Chair of Biological Sciences.

The main research areas are in reproductive biology, particularly marsupials, the physiology and molecular biology of plants and environmental biology and ecology. The Department is a member of the CRC for Conservation and Management of Marsupials and is served by a glasshouse, animal house, electron microscope and DNA sequencing facilities.

Teaching is in the Bachelor of Science and Bachelor of Environmental Science within the Faculty of Science and Mathematics and a Bachelor of Science (Biotechnology) in conjunction with the Faculty of Medicine and Health Sciences is planned to commence in 1997. The Department has well developed postgraduate programs.

Further information on the selection criteria for the position is available from the Human Resource Management Branch, telephone (61 49) 21 7082.

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GENERAL

Further information regarding academic matters and teaching duties for the position may be obtained from Professor David Finlay, Dean of the Faculty on (61 49) 21 5560 or Fax (61 49) 21 6914. The University reserves the right to appoint by invitation. Applications (submit original plus 3 copies) close 1 July, 1996

GENERAL INFORMATION

For information on employment conditions, telephone the Human Resource Management Branch telephone (61 49) 21 7082 Fax (61 49) 21 5285.

Written applications must quote the position number; address all selection criteria; provide details of qualifications and experience, and the names, addresses, phone and fax numbers of three referees; and be forwarded to: Human Resource Management Branch, The University of Newcastle, NSW, 2308



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AUSTRALIA

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POSTDOCTORAL ASSOCIATE

Position available to study molecular mechanisms of X chromosome inactivation and to participate in other gene mapping and mutation analysis projects. Ph.D. in genetics or related field with experience in molecular techniques. Send curriculum vitae to: Dr. L. R. Adkison, Mercer University School of Medicine, 1550 College Street, Macon, GA 31207. FAX: 912-752-5489. Equal Opportunity/Affirmative Action Employer.

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