<table>
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<th>Sponsor</th>
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| ASBMB   | ASBMB Fall Symposium  
Structure and Function of Protein Kinases and Phosphatases  
October 23-26, 1992 | San Diego, California | ASBMB Society Office  
Phone: 301-530-7145  
FAX: 301-571-1824 |
| ASIP    | COURSE: Concepts in Molecular Biology  
October 29-November 1, 1992  
Experimental Biology '93  
March 28-April 1, 1993 | Bethesda, Maryland  
New Orleans, Louisiana | ASIP Office  
Phone: 301-530-7130  
FAX: 301-571-1879  
FASEB/Office of Scientific Meetings and Conferences |
| AAI     | AAI Annual Meeting  
May 21-25, 1993 | Denver, Colorado | AAI Office  
Phone: 301-530-7178  
FAX: 301-571-1816 |
| Biophysical Society | Biophysical Society Meeting  
February 14-18, 1993 | December 14, 1992  
January 11, 1993 | Washington, D.C. | FASEB/Office of Scientific Meetings and Conferences |

*9650 Rockville Pike, Bethesda, MD 20814, USA  
Abstracts: November 17, 1992  
Advance Registration: February 3, 1993  
Housing: February 22, 1993  
Placement Service: March 19, 1993  
Phone: 301-530-7010, fax: 301-530-7014*
A comprehensive calendar is published 4 times a year (January, April, July, and October); new listings appear in other months. The calendar lists open meetings of a biological topic: conferences, symposia, courses, and workshops. To have your event listed, please include the date and year of the meeting, its title and location, and a contact name and address and send the information to Calendar Editor, The FASEB Journal, 9650 Rockville Pike, Bethesda, MD 20814, USA.

5-7 November 1992. International Conference on Gene Therapy of Cancer, San Diego, California, USA. (San Diego Regional Cancer Ctr., 3099 Science Park Rd., #20, San Diego, CA 92121, USA)
6-7 November 1992. Adjunt Nutrition in Cancer Treatment, Tulsa, Oklahoma, USA. (D. Dalton, Memorial Rch. Fndn., 8181 S. Lewis, Tulsa, OK 74120-1200, USA)
4-12 November 1992. 103rd Association of American Medical Colleges Annual Meeting, New Orleans, Louisiana, USA. (AAMC, P. O. Box 19509, Washington, DC 20036-0009, USA)
9-13 November 1992. 42nd Annual Meeting of the American Society of Human Genetics, San Francisco, California, USA. (M. Ryan, ASHG, 9560 Rockville Pike, Bethesda, MD 20814-3998, USA)
10-14 November 1992. V11th International Symposium on the Biology of Vascular Cells, San Diego, California, USA. (Dept. of Academic Affairs, 403C, Scripps Clinic and Research Fndn., 10666 N. Torrey Pines Rd., La Jolla, CA 92037, USA)
10-15 November 1992. Mechanisms in Toxicity: The Biological Relevance of Molecular, Cellular and In Vivo Models, San Fulio de Guxios, Spain. (European Science Fndn., 1 qai Leyz-Marn-s2-eia 67080, Strasbourg, Cedex, France)
*11-14 November 1992. 21st Annual Meeting of the Society for Complex Carbohydrates: Glyco-biology—State of the Art, Nashville, Tennessee, USA. (C. Hellerqvist, SCC Secretary, Vanderbilt U., Rm. 655 Light Hall, Nashville, TN 37232-0146, USA)
11-16 November 1992. Biology of Cartilage and Bone: Molecular and Cellular Aspects of Cartilage and Bone Differentiation, Le Bischenberg, France. (European Science Fndn., 1 qai Leyz-Marn-sia 67080, Stra-bourg, Cedex, France)
13-15 November 1992. 7th Annual Conference on Clinical Immunology (ACCI) and CIs Specialised Meetings, Philadelphia, Pennsylvania, USA. (CIS Registration Mgr., 6090 Grove Rd., Thorofare, NJ 08086-9447, USA)
14-15 November 1992. Second International Symposium on Reverse Cholesterol Transport and Coronary Heart Disease, Fort Worth, Texas, USA. (A. Lacks, Dept. of Biochemistry, Texas Coll. of Osteopathic Med., 3500 Camp Bowie Blvd., Fort Worth, TX 7607-2690, USA)
*16-20 November 1992. The Thirty-First Annual Eastern Analytical Symposium and Exposition, Somerset, New Jersey, USA. (Eastern Analytical Symposium, P.O. Box 633, Montchanin, DE 19707-0635, USA)
*16-21 November 1992. 6th Congress of the Federation of Asian and Oceanian Biochemists, Shanghai, China. (L. Qyshu, Inst. of Biophysics, Acad. Sci., Shanghai 200031, China)
18-20 November 1992. The Practice of Modern HPLC, Atlanta, Georgia, USA. (LC Resources, Inc., 2930 Camino Diablo #110, Walnut Creek, CA 94596, USA)
3-6 December 1992. Growth Hormone II: Basic and Clinical Aspects, Tarpon Springs, Florida, USA. (B. Burnett, Serono Symposia, USA, 100 Longwater Cir., Norwell, MA 02061, USA)
*7-9 December 1992. The Practice of Modern HPLC, Princeton, New Jersey, USA. (LC Resources, Inc., 2930 Camino Diablo #110, Walnut Creek, CA 94596, USA)
*7-11 December 1992. Molecular Epidemiology of Cancer, Courmayeur, Italy. (J. Hendekovic, European Sci. Fndn., 1 qai Leyz-Marn-sia 67080 Strasbourg Cedex, France)
17-18 December 1992. Carbohydrates, Shapes and Biological Recognition, London, United Kingdom. (A. Dell, Dept. of Biochemistry, Imperial Coll. of Sci., Technology and Medicine, London SW7 2AZ, UK)

1993

*6-8 January 1993. The Santiago Southern Summer Symposia: Protein Kinasas, Cell Proliferation and Oncogenesis, Santiago, Chile. (J. Allende, Dept. of Biochemistry, Faculty of Med., U. of Chile, Casilla 70086, Santiago 7, Chile)
9-15 January 1993. The Extracellular Matrix of Plants: Molecular, Cellular and Developmental Biology, Santa Fe, New Mexico, USA. (Keytome Symposium, Drawer 1630, Silverthorne, CO 80498, USA)

1-6 August 1993. 32nd International Congress of Physiological Sciences, Glasgow, Scotland. (CEP Consultants Ltd., 26-28 Albany St., Edinburgh EH3 3QH, Scotland)

15-21 August 1993. Seventeenth International Congress of Genetics: Genetics and the Understanding of Life, Birmingham, United Kingdom. (D. Smith, The U. of Birmingham, Edgbaston, Birmingham B15 2TT, United Kingdom)

22-27 August 1993. 7th World Congress on Pain, Paris, France. (International Assoc. for the Study of Pain, 909 NE 43rd St., Ste. 306, Seattle, WA 98105, USA)


26 September-1 October 1993. XV International Congress of Nutrition, Adelaide, Australia. (CSIRO Div. of Human Nutrition, P. O. Box 1044, Gouger St., Adelaide SA 5000 Australia)

*28 September 1993. AIDS Vaccines, San Francisco, California, USA. (C. Jones, Vaccines Conf., 7916 Convoy Ct., San Diego, CA 92111, USA)


29 September-3 October 1993. 2nd IUBMB Conference Biochemistry of Cell Membranes, Bari, Italy. (Organizing Secretariat, Centro Internazionale Congresi s.r.l., Viale Papa Pio XII, 18, 70125 Bari, Italy)

14-17 October 1993. Fifth International Meeting for the Use of Resealed Erythrocytes as Carriers and Bioreactors, San Antonio, Texas, USA. (J. Way. Dept. of Med. Pharmacology, Texas A&M U., Reynolds Med. Bldg., College Station, TX 77843-1114, USA)

28-29 October 1993. Advances in the Understanding and Treatment of Multiple Sclerosis, Boston, Massachusetts, USA. (IBC USA Conf. Inc., 8 Pleasant St., Bldg. D, S. Naick, MA 01760-5660, USA)


Courses and Workshops

26-30 October 1992. Recombinant DNA: Techniques & Applications, Rockville, Maryland, USA. (ATCC/Workshops, 12301 Parklawn Dr., Rockville, MD 20852, USA)

29 October-1 November 1992. ASIP Courses Concepts in Molecular Biology, Bethesda, Maryland, USA. (AAP, Inc., 9600 Rockville Pl., Bethesda, MD 20814-3993, USA)


2-13 November 1992. Regional Training Course on Fermentation Technology for the Conservation of the Environment, Shanghai, China. (D. Song, Inst. of Microbiology, Academia Sinica, Beijing 100080, P.R., China)

3-6 November 1992. Polymerase Chain Reaction/Cycle DNA Sequencing, Rockville, Maryland, USA. (ATCC/Workshops, 12301 Parklawn Dr., Rockville, MD 20852, USA)

*9 November 1992. ACS Satellite Television Seminar: Biological and Abiological Catalysis in Organic Synthesis (American Chemical Society, Satellite TV Seminars, Rm 809, 155 Sixteenth St., NW, Washington, DC 20036, USA)


*11-13 November 1992. Cell Culture & Hybridomas: Quality Control & Cryopreservation Techniques, Rockville, Maryland, USA. (ATCC/Workshops, 12301 Parklawn Dr., Rockville, MD 20852, USA)


18-20 November 1992. Medical Mycology, Rockville, Maryland, USA. (ATCC/Workshops, 12301 Parklawn Dr., Rockville, MD 20852, USA)

*8-11 December 1992. DNA Fingerprinting, Rockville, Maryland, USA. (ATCC/Workshops, 12301 Parklawn Dr., Rockville, MD 20852, USA)

*14-18 December 1992. Advanced Recombinant DNA Methodology, Rockville, Maryland, USA. (ATCC/Workshops, 12301 Parklawn Dr., Rockville, MD 20852, USA)

15 December 1992. Introduction to PCR, Gainsville, Florida, USA. (S. Chance, Biotechnology Training Programs, Inc., 301 Main St., Ste. 3, Ames, IA 50010, USA)


*4-8 January 1993. Recombinant DNA Methodology, Washington, DC, USA. (CATCMB, 103 McCort-Ward Bldg., Catholic U. of America, 620 Michigan Ave., NE, Washington, DC 20065, USA)


POSITIONS AVAILABLE—Classified advertisement: $25.00 per line (70 characters), $250.00 (10 line) minimum. Display advertisement: $700.00 for ¼ page, 3½ inches x 4½ inches; $1000.00 for ½ page, 3½ inches x 9½ inches (vertical) or 7½ inches x 4½ inches (horizontal); $1400.00 for full page, 7¼ inches x 9½ inches. (For display ads, add 5% if mechanical not submitted.) Advertisements will be published in next available issue unless otherwise specified. Deadline for receipt of copy is 5th day of month before publication. Payment, purchase order, insertion order, written invoicing instructions, or MasterCard or VISA account number with expiration date and signed authorization is required with insertion copy. Advertisements are noncommissionable to agents; no cash discounts are allowed. Blind advertisements are not accepted.

POSITIONS DESIRED—Candidates registered with FASEB Placement Service are allowed one advertisement of five lines, each containing 70 characters including spaces. The issue in which advertisement appears will be based on date of receipt of copy. Fee for publication in additional issues: $15.00 per issue.

Primary employers desiring identification and additional details concerning Positions Desired advertisers should write to address below, indicating hyphenated number appearing as last element of advertisement; a one-page registration from advertiser(s) will be provided immediately. Advance telephonic determination of availability of advertisers from earlier-than-current issues is recommended. Employers not currently registered with Placement Service for annual meeting participation are charged a minimum fee of $50.00 for identification of up to 10 advertisers, plus $5.00 for each above 10, payable in advance to FASEB Placement Service.

Some registered candidates do not prepare Positions Desired advertisements; some advertisements are published at times not coinciding with employer recruitment activities. Primary employers not finding advertisements that appear to match current or projected needs may request a search of all active candidate files. Telephone a description of desired qualifications; results of search will be discussed telephonically with requesting official, and registrations from candidates declared suitable will be forwarded. Employers not currently registered with Placement Service for annual meeting participation are charged a minimum fee of $50.00 for up to 10 identifications, plus $5.00 for each above 10.

In publishing these advertisements FASEB assumes no obligations as to qualifications of prospective employees or responsibility of employers, nor shall FASEB obtain further information concerning positions advertised or those seeking employment. Accuracy and completeness of all listings are the responsibility of the submitting party.

Various U.S. national and state laws against discrimination, including the Federal Civil Rights Act of 1964, prohibit discrimination in employment in the United States because of race, color, religion, national origin, age, sex, or any reason not based on a bona fide occupational qualification. The Federation of American Societies for Experimental Biology endorses these principles and reserves the right to edit all copy and to refuse advertisements not in consonance therewith.

Employment in countries other than the United States may be restricted by government visa and other policies. Moreover, it is suggested that the generally accepted employment practices, the cultural conditions, and the exact provisions of the specific positions being considered be investigated thoroughly. The U.S. Embassies in countries of interest to potential employees should be able to provide up-to-date data concerning internal conditions.

For a description of operation at meetings, contact the Placement Service.

Correspond to FASEB Placement Service, 9650 Rockville Pike, Bethesda, MD 20814. (301) 530-7020, FAX (301) 530-7001. * * * * *

POSITIONS AVAILABLE

ASSISTANT/ASSOCIATE PROFESSORS. The School of Biological Sciences invites applications for up to two tenure-track Assistant or Associate Professors for molecular/cellular physiologists in any area of research compatible with the interests of the school program. The emphasis is placed on molecular recognition as applied to mechanisms of cellular regulation and control of proliferation. Research areas of eukaryotic signal transduction, sensory perception, stress mechanisms, endocrinology, cellular/molecular assembly, mechanisms of cardiac and renal cell injury, and cell surface phenomena and transport are preferred, but not all-inclusive. We are seeking individuals with demonstrated potential to establish independent extramurally-funded research programs in any of the above research areas. Communication and organizational skills are required. Willingness to organize/direct a health sciences (medicine/dentistry) physiology course and to participate in undergraduate and graduate (Ph.D. and M.S.) level courses is essential. Competitive salaries, newly renovated research space, start-up funds and excellent research core facilities available. Review of applicants will begin October 15, 1992. Applications should refer to position SBS-I. Submit CV, statement of research goals and teaching interests and three letters of reference to SBS-I Search Committee, UMCK School of Biological Sciences, 5100 Rockhill Road, Kansas City, MO 64110-2499.

FACULTY POSITIONS, TULANE UNIVERSITY MEDICAL CENTER, NEW ORLEANS, LOUISIANA. Two positions are available in the new Lung Biology Program under the direction of Dr. Arnold R. Brody, to be located in the Bioenvironmental Research Center currently under construction on the Medical Center campus. One position is a tenure-track assistant professor; the other is a research assistant professor. Both offer attractive salaries and start-up support. Both individuals must clearly demonstrate expertise in modern molecular biology and biochemical techniques. The incumbents will carry out an independent research program and play an important role in the collaborative research of the Lung Biology Program. Send CV, pertinent reprints and three letters of recommendation by December 31, 1992, to Dr. Arnold R. Brody, Pulmonary Pathology Laboratory, National Institute of Environmental Health Sciences, P.O. Box 12233, Research Triangle Park, NC 27709.

Tulane University Medical Center is an affirmative action/equal opportunity employer.

RESEARCH ASSOCIATE OR POSTDOCTORAL RESEARCH FELLOW. Position available in pulmonary microcirculation research. Studies conducted in large animal models, isolated perfused lungs and in isolated vessel rings. Background in physiology, bioengineering or pharmacology. Send CV to Usha Raj, M.D., Research and Education Institute, Inc., Harbor-UCLA Medical Center, 1124 W Carson Street, RB-1, Torrance, CA 90502. AA/EEO employer.
IMMUNOCHEMIST/IMMUNOTOXICOLOGIST/IMMUNOLOGIST. The National Institute for Occupational Safety and Health (NIOSH), Centers for Disease Control, is seeking a Chief for the Immunoc hemistry Research Section, Applied Biology Branch, Division of Biomedical and Behavioral Science, Cincinnati, Ohio. The successful candidate is expected to carry on a research program in immunoc hemistry, immunotoxicology and immunology with special emphasis on developing immunoc hemical biological monitoring methods for assessing occupational exposures to workplace hazards. Candidates should have research expertise and publications in one or more of these areas as well as experience in research program development and management. The position may be filled as a Commissioned Officer in the U.S. Public Health Service or in the Career Civil Service (GM-13 or GM-14, salary range $46,210-$70,987 depending on qualifications). Interested candidates should send an application (U.S. Standard Form 171) and CV to Dr. Lloyd E. Sattler, DHHS, PHS, CDC, NIOSH, MS C-26, 4676 Columbia Parkway, Cincinnati, OH 45226 (313) 533-8453. NIOSH is an equal opportunity employer and offers a smoke-free environment.

ACADEMIC RESEARCH TRAINING IN TRAUMA AND BURNS. The Department of Surgery, University of California, San Francisco is offering two-year fellowships for research in the fields of trauma and burns. This program is sponsored by the National Institutes of Health. An outstanding scientific faculty has been organized to provide independent research training to fellows with academic career goals at the UCSF Campus, the Trauma Center at San Francisco General Hospital, and other allied biotechnology institutions. The program is open to surgical trainees upon completion of a minimum of two years of residency training. The University of California is an affirmative action/equal opportunity employer. Applicants must be citizens or permanent residents of the United States. Please submit a letter of interest, CV, synopsis of research interest, and three letters of reference to Jan K. Horn, M.D., Department of Surgery, UCSF, San Francisco, CA 94143-0807 (415) 206-8804, FAX (415) 206-5484. Positions are available for July 1, 1993 and applications will be accepted until January 1, 1993.

POSTDOCTORAL FELLOW. Full-time position available immediately to conduct studies in the field of thoracic surgery at Harvard Medical School. Experiments involve performing rat lung perfusion and cell culture. Applicant should have surgical skills as well as analytical research experience. Proper care and handling of small animals, familiarity with cell culture and molecular techniques will be helpful. Experience with data acquisition on electronic media and other computer skills will also be helpful. Qualified applicants should send CV to Joseph LoCicero, III, M.D., Division of Cardiothoracic Surgery, New England Deaconess Hospital, 110 Francis Street, Suite 2C, Boston, MA 02215.

FACULTY/MICROBIOLOGY AND IMMUNOLOGY. Applications for a tenure-track faculty position at either the assistant or associate professor level are invited from individuals with a strong background in molecular immunology. Candidates should have Ph.D. or M.D. with postdoctoral experience. The successful candidate will be expected to develop an independent research program and participate in the graduate course(s) of his/her specialty. Ample opportunity for collaboration with established research programs is also available. Send CV, a statement of research interest, and names and addresses of three references to Roger G. Rank, Ph.D., Department of Microbiology and Immunology, University of Arkansas for Medical Sciences, 4301 W Markham, Little Rock, AR 72205. EEO/AA employer.

POSTDOCTORAL FELLOWSHIP. Study the basic mechanisms of cell-mediated immunity to genital infections caused by Chlamydia. The research utilizes a murine model system for the study of cellular interactions, cytokine production, T cell homing and the mapping of the protective chlamydial antigen(s) using T cell lines and clones. The applicant should have a Ph.D. or M.D. and research experience in molecular and/or cellular immunological techniques. Send CV and the names of two references to Dr. Roger G. Rank, Department of Microbiology and Immunology, University of Arkansas for Medical Sciences, 4301 W Markham, Little Rock, AR 72205. EEO/AA employer.

SCIENTIST for national public-interest group to work on food safety issues. Related Ph.D. and advocacy experience preferred. Salary range $35-45K. Non-smoking office. Send resume, salary history, writing samples to J. Douglas, Center for Science in the Public Interest, 1875 Connecticut Avenue, NW, Suite 300, Washington, DC 20009-5728.

ASSISTANT PROFESSOR. This non tenure-track research position requires a Ph.D. with at least two years of relevant postdoctoral experience in cardiac physiology, morphology and free radical biology. Candidate is expected to carry on a research program and to attract extramural funding. Primary consideration will be given to individuals who use a multidisciplinary approach in their research. Applicants should submit CV, a letter stating research goals and three letters of reference by October 30, 1992 to Dr. Michael Hess, Department of Medicine, Virginia Commonwealth University, Medical College of Virginia, MCV Box 282, Richmond, VA 23298. Virginia Commonwealth University is an equal opportunity/affirmative action employer. Women, minorities and persons with disabilities are encouraged to apply.

POSITIONS DESIRED

Ph.D., 1990; Physiology: Cardiopulmonary, renal at systems level, neural control of circulation, hypertension, exercise, acute/chronic renal function and hemodynamic studies, animal surgery (rabbit, dog, swipe), MAC/IBM computer skills, supervisory experience; Avail. March 1993; Research in industry/academia; East coast, Midwest. 1-2252

Ph.D., 1992 (expected); Physiology; Smooth muscle, in vitro studies of isometric longitudinal contractions of ileal smooth muscle of rachitic and normal chicks; Avail. October 1992; Staff position/postdoc. in academia/industry; New York city; Salary negot. 1-2277

M.D., 1982; Immunology, autoimmunity, biochemistry; Tissue culture, T cell cloning, T & B cell hybridomas, flow cytometry, cell separation, cytokines, immunohistochemistry, ELISA, RIA, immunoblotting, protein purification, animal models of arthritis, Southern/Northern, PCR; Avail. October 1992; Research/teaching; Now in Canada. 6-2769

Ph.D., 1983; Molecular biology, protein/liprotein chemistry, immunology; Cloning (Lambda II zap, plasmids), PCR, Northern/Southern/ Western blotting, protein/liprotein purification (all forms of chromatography, gel electrophoresis), enzyme kinetics, tissue culture; Avail. October 1992; Academia/industry/government; PR. 2-2969

Ph.D., 1992; Microbiology; Inflammation, protein purification, ELISA, chemotaxis/cytotoxicity assays, electrophoresis, tissue culture, Western Southern/Northern blotting, DNA, RNA, enzyme isolation, purification, restriction analysis, chromatography; Avail. October 1992; Postdoc. in academia/industry; Mid-Atlantic; PR. 6-2794

Ph.D., 1989; Neuroscience, lipid/protein biochemistry; Metabolism, transport and trafficking of lipids and essential fatty acids, retinal degeneration, corneal wound healing and herpetic disease, neuron development and regeneration, teaching, computer skills; Avail. December 1992; Research/teaching in academia/industry; Salary negot. 2-2976

Ph.D., 1993 (expected); Biochemistry; Protein purification and characterization, electrophoresis, affinity and other column chromatography, radioimmunoassay, protein i onization and biotinylation, receptor binding, cloning, screening, sequencing; Avail. June 1993; Research; Salary negot.; F1 visa. 2-2977

Ph.D., 1988; Molecular biology; RNA isolation, hybridization (Northern, dot blot, S-I), nuclear run-on transcription, mobility-shift assay, electrophoresis, fluorography, plasmid DNA technology, tissue culture, drug toxicity; Avail. November 1992; Research in industry/government/academia; Southwest, West. 2-2978

Ph.D., 1961; Biochemistry; Diplomate, American Board of Toxicology, 1987; Carcinogenesis, endocrine neoplasms, pathology, histochemistry, toxicology; Avail. October 1992; Academia/government/industry; Salary negot. 2-2979
This section is published as a service to our readers; it is not intended as an endorsement or approval of any product mentioned. To contact a company listed below, use SPEED-A-LEAD on the inside back cover.

Vented tissue-trimming workstations reduce exposure when working with chemical and biological agents. The design has a rear plenum, which reduces turbulence that normally occurs in fume hoods. Recommended for use in tissue trimming, animal necropsy, automatic titrating, pipetting, chemical transfers, centrifuges, water baths, and biological transfer. Two- and four-foot models are available in counter top and floor models. Constructed from 3/8" Plexiglas, safety plate glass, Corian work surface, and in the floor model a stainless steel table with outside surface to accommodate note taking. Flow Sciences, Inc., 116 Princess St., Wilmington, NC 28401, USA.

The FT 1000™ spectral imaging system, a new generation of fluorescence microscope, uses proprietary CRI technology and converts a standard laser-scan confocal microscope into a multichannel imaging spectrometer. Performing high-speed spectral analysis on individual pixels of the sample being scanned, the FT 1000 separately images multiple, simultaneously present fluorescent probes and can resolve and image up to eight spectral parameters. No optical filters are required, reducing light loss and simplifying operation. Because the system can be adjusted automatically for new fluorescent probes, operator intervention is minimal. Applications include imaging of complex two-dimensional and three-dimensional structures such as tissues, cells and chromosomes, where analysis of the location of multiple fluorescent probes allows insight into the nature and possible interactions of structural elements. Cell Robotics, Inc., 2715 Broadbent Pkwy. NE, Albuquerque, NM 87107, USA.

A resealable plastic snap plug for the Waters 96-position Autosampler Shell Vial offers resealability using a layer of silicone molded into the plug. The design minimizes sample loss, allows for multiple sample injections, and offers resealability after the injection needle has penetrated the cap. A specially designed molded silicone seal in the base of the plug effectively resails itself after being pierced by the injector needle. Made of nontoxic thermoplastic resin that can be incinerated, the plug snaps on with only the pressure of a finger, and can be easily removed. Laboratory Supply Distributors Corp., P.O. Box 1131, Mount Laurel, NJ 08054, USA.

A gold immunoprobe significantly improves electron microscopy results. Nanogold™ is a 1.4 nm gold compound that is covalently attached to the Fab' fragment (or IgG). Since it is the smallest gold immunoprobe commercially available, it reaches more antigens and produces more quantitative staining. The gold is covalently attached to the antibody and is more stable than colloidal gold conjugates. A brief exposure to Nanoprobes HQ Silver enlarges the small gold particles to ~10 nm so they may be easily identified. The accompanying electron micrograph shows GABA containing terminals (asterisks) forming symmetrical synaptic specializations (arrows) with dendrites (D) in the thoracic spinal cord of the rat. The presence of GABA within the terminals was revealed by post-embedding stain-

An accessory that provides most Nikon laboratory, industrial, and measuring microscopes with the ability to zoom continuously over a range from 0.8x to 2x overcomes the limitations of fixed, discrete-step objective lens magnification. Optizoom is a continuous zoom module that can be placed between the microscope stand and the viewing head to provide an erect, magnified image for visual, photographic, and video applications. The unit has been optimized for video image analysis and a variety of OEM applications. Nikon Inquiry Response Center, 101 Cleveland Rd., Bayshore, NY 11706, USA.

ECL probe-amp reagents are designed for the preparation of fluorescein-labeled DNA during the polymerase...
chain reaction (PCR) and for subsequent detection of these probes with enhanced chemiluminescence after hybridization. With PCR-generated probes only small amounts of template are required, short probes can be labeled efficiently, no extensive purification of template is required, and specific probes can be generated from heterogeneous sequences. Fluorescein-labeled PCR products can be examined with UV light after electrophoresis. The labeled probes have been shown to be stable under standard hybridization conditions and can be used in a similar way to radioactively labeled probes. A complete immunoradiometric assay kit for accurate assessment of intact parathyroid hormone in human serum or plasma provides an advanced bead coating process, coupled with a new capture antibody, to increase binding capacity of N-tact PTH SP beads. It is capable of measuring only intact PTH hormone 1-84 for good performance. It accurately dilutes renal samples, and has an increased sensitivity level of 0.7 pg/mL, which allows accurate assessment of hypoparathyroid patients. A sturdy, uniform, walled, flat-bottom cylindrical jars, with glass lids as an option, are used for applications requiring wall strength and clarity. Suitable as chromatography tanks, these wide-mouth, large-diameter chambers can be used as animal jars and with liquid and other materials in which distortion needs to be eliminated. Available in sizes ranging from 4" through 10" in diameter. Two models of thermostated centrifuges are available from Jouan, Inc.: The CT422 benchtop and GT422 floor model. These thermostated centrifuges have both a refrigeration and a heating system, resulting in temperature control over a -9°C to +60°C (± 1°C) range, a feature useful in laboratories performing microbiological procedures. By changing inserts, the rotor insert system can handle special cell culture vessels such as 250ml conical tissue culture bottles as well as tubes ranging from 0.5ml to 750ml simply by changing inserts. In addition, the insert system offers high-capacity handling up to 148 5ml tubes per run. Jouan, Inc., 1101 B Industrial Dr., Winchester, VA 22601-1916, USA.

An HPLC filter-degasser system is designed to enhance the performance of HPLC pumps and detectors by removing suspended particles and degassing solvents. The filter-degasser system screws directly onto any standard solvent bottle and is used without refilling or operator attention. Filtered solvent is then transferred for storage and use to an empty bottle of similar size. Degassing eliminates outgassing in HPLC detectors, while filtration reduces wear of delicate pump valves and protects HPLC columns. All components are made out of Teflon, making it suitable for both aqueous and organic solvents. The unit uses standard 47 mm filter membranes and connects directly to a vacuum source. Phenomenex, Inc., 2320 W. 205th St., Torrance, CA 90501, USA.

A complete uniplex chemiluminescent DNA sequencing kit for thermal cycle sequencing, a process that uses a thermostable DNA polymerase to amplify the DNA template during the sequencing procedure. With thermal cycle sequencing, only nanogram quantities of template are needed for sequencing, recalcitrant DNA structures can be sequenced through, and the "pre-reaction" steps of denaturing dsDNA and annealing primers are eliminated. The kit can be used to sequence templates in a variety of standard sequencing vectors, such as M13, pUC, RD20, pBR322, λ gt10, λ gt11, and other commercially available vectors. The sensitivity of the chemiluminescent detection is equivalent to that of radioactivity, but the results are generated much more quickly—only 75 min after the completion of electrophoresis. Millipore Corp., Bedford, MA 01730, USA.

Software

Dataworks Development, Inc. is offering a free, fully functioning demonstration version of its Freezer Works freezer inventory software program. The demo program is identical to the full program, except for a 25-vial entry limit. Included in the demo program are detailed manuals with instructions for configuring the program to meet a lab's freezer setup and for vial and transaction entry.

FreezerWorks is a database application for IBM-PC compatibles that allows medical and research laboratories to keep an up-to-date computerized inventory of their stored specimens. FreezerWorks is an adaptation of a system currently in use by research labs nationwide involved in the AIDS Clinical Trials studies. Dataworks Development, Inc., 6920 220th St., SW, Mountlake Terrace, WA 98043, USA.

The Keyboard Microbiology Series is an interrelated series of education and reference software programs that incorporates text, a pictorial review, and a self-quizzing module for an integrated learning system. The Microbiology TextStack includes the complete text and figures, diagrams, and tables from Medical Microbiology, Second Edition, and enables the user to locate, view, manipulate, tag, and save information on the bacterial cell, the biology of viruses, host-parasite interactions, laboratory diagnosis of infection, and pathogenic bacteria, viruses, and fungi, among others.

The Microbiology VideoIndex highlights hundreds of pertinent images from the University of Utah's Slice of Life VI videodisc. Each image has a fully searchable caption, which is linked to related text in the Microbiology TextStack.
The Microbiology QuizBank features hundreds of multiple choice questions covering all areas of medical microbiology, and provides an easy method of linking into the complete text of Sherris’ Medical Microbiology. Keyboard Publishing, Inc., 482 Norristown Rd., Blue Bell, PA 19422, USA.

An optional GC control module for Shimadzu EZChrom™ chromatography data system software for the IBM PC family of computers, revision 2.0, allows users to set up parameters and execute an analysis entirely from the PC. It may be used with Shimadzu’s GC-14A Series gas chromatographs, with associated AOC14/1400 Autosamplers for batch analysis. The module can be operated concurrently from a PC operating Shimadzu’s HPLC control module, providing increased ease of use, higher productivity and more efficient use of resources. Shimadzu Scientific Instruments, Inc., 7102 Riverwood Dr., Columbia, MD 21046, USA.

Turbochrom 3 Size Exclusion Chromatography (SEC) software provides complete and flexible data processing for all SEC applications. It features automatic generation of user-selected SEC reports and plots, as well as five user-selectable fit types for molecular weight calibration, including point-to-point, first order, second order, third order, and cubic spline.

SEC calibrations are generated using either narrow or broad molecular weight standards, and provide retention time correction based on an internal standards reference peak. The software also provides a universal calibration option, and all calibration curves can be automatically updated. PE Nelson, 10040 Bubb Rd., Cupertino, CA 95014, USA.

A portable, notebook-sized 386SX computer serves as the gradient programmer and system controller in a series of low-pressure LC systems. In addition to gradient control of two peristaltic pumps, the menu-based chromatography software included with the system also provides dual-channel data handling with comprehensive integration reports, peak-cutting control of the fraction collector, and programmable inputs and outputs to automate valves and other devices. The UV-vis detector includes 254 and 280 nm wavelengths; other wavelengths from 214 to 660 nm are available. Isco Inc., 4700 Superior, Lincoln, NE 68504, USA.

MPG (Molecular Presentation Graphics), software designed by and for chemists, provides easy entry of chemical structures and high-quality output to a variety of devices. MPG is available for MS-DOS (without Windows) and Microsoft Windows. MPG provides for the easy entry of rings, bonds, and text, using command formats that are natural for each version. The original DOS version has a powerful system of menus that works well with or without a mouse. The Windows version uses the graphical “point-and-click” user interface. Common actions such as attaching two rings or drawing a bond that branches away from a ring are automatically performed. Hawk Scientific Systems, Inc., 170 Kinnelon Rd., Kinnelon, NJ 07405, USA.

The FilmMate System combines sophisticated image analysis software with automated film loading of up to 10 films to deliver the first integrated solution to DNA sequence film analysis on the Macintosh®. Using 12-bit data processing, FilmMate can distinguish 4096 shades of gray on a film. With that much sensitivity, it can resolve closely spaced bands of variable intensity. Automatic base calling and ambiguity marking with the new BaseWorks™ software give accurate control of sequence identification and offers powerful sequence comparison and alignment capabilities as well as versatile report formatting options. IntelliGenetics, Inc., 700 East El Camino Real, Mountain View, CA 94040, USA.
Bodman has divided its product guide into three separate catalogs that contain products for different chromatographic methodss: Sample Preparation, Low Pressure and TLC; HPLC, and GC. A detailed index is at the back of each catalog. Bodman, P.O. Box 2421, Aston, PA 19014, USA.

A bulletin describes a line of waterbaths that consists of general purpose, refrigerated, shaking and refrigerated-shaking models. Chamber capacities are 2.9, 7.0, 14.8 and 26.6 gallons. The temperature range for general purpose and shaking models: ambient to +90 C. Refrigerated and refrigerated-shaking models have a temperature range from 0 C to +90 C. Built-in microprocessor-based digital type controllers simultaneously display setpoint and actual chamber temperature. Lindberg/Blue M, 304 Hart St., Watertown, WI 53084, USA.

A 1992-93 catalog features many products for Extracellular Matrix (ECM) research, including proteins such as fibronectins, laminins, vitronectins, collagens, tenasin, thrombospondin, and fibronectin fragments. Polyclonal and monoclonal antibodies to these proteins are also available, with an extensive line of anti-integrins and featuring a new anti-Human Integrin B1. The product line also includes RGD peptides™ and cDNA probes, as well as PepTite-2000™, an adhesion factor for cell culture. Telios Pharmaceuticals, Inc., 4757 Nexus Centre Dr., San Diego, CA 92121, USA.

1993 Life Science Research Products catalog complements United States Biochemical's 1992 Molecular Biology Reagents/Protocols catalog and is organized alphabetically to find more than 7,000 research products. Also included are separate sections featuring affinity chromatography media, antisera, biological buffers, kits, laboratory animal test diets, lectins, and restriction endonucleases. United States Biochemical Corp. P.O. Box 22400, Cleveland, OH 44122, USA.

The second edition (1992) of "ATCC Quality Control Methods for Cell Lines," is a technical manual that provides information and instruction for working with metazoan cell cultures and emphasizes procedures used at the American Type Culture Collection. Topics include media preparation, culture preservation, contamination testing, cell line characterization, safety, and culture shipping. There is also a section listing commercial sources of appropriate culturing equipment. ATCC/Mktng NR 03, 12301 Parklawn Dr., Rockville, MD 20852, USA.

A new 4-page brochure illustrating a line of Custom™ general purpose storage freezers for clinical and industrial use, includes details on two countertop models with operating temperature ranges of -40°C or -85°C and capacity of 1.0 cu. ft.; eleven chest models with operating temperature ranges of -50°C, -75°C or -85°C and capacities from 13.7 to 20.5 cu. ft.; and eight upright models with operating temperature ranges of -40°C, -75°C or -85°C and capacities from 13.1 to 24.4 cu. ft. Also available are brochures, an Classic™ and Custom Deluxe™ models. Harris Manufacturing Co., 275 Aiken Rd., Asheville, NC 28804, USA.

Literature

A full-color brochure describes the AI-450 chromatography workstation, which includes an updated Windows™ 3.1-based software package that automates LC, GC, IC, SFC and CE instruments. System capabilities include true high-performance multitasking, independent interfaces for increased performance and reliability, flexible instrument control through universal outputs and inputs, and broad compatibility with PCs, printers, networks, etc. Dionex Corp., P.O. Box 3603, Sunnyvale, CA 94088-3603, USA.

An 80-page catalog includes many instruments for physiology, pharmacology, neuroscience — any whole animal research lab. It includes lines of micromanipulators, stereotaxic instruments, and swivels. Additions include an economical electronic animal I.D. system. Stoelting Co., 620 Wheat Lane, Wood Dale, IL 60191, USA.

For scientists in the fields of immunochemistry, flow cytometry, cell biology, cancer research, immunology, and AIDS research, a catalog that contains an extensive list of procedures and immunochemical products including directly conjugated F(ab')2, fragments of anti-CD marker antibodies, signal transduction antibodies, liquid DAB, Z-avidin and antibodies for immunohistochemistry. Reagents are available for ELISA, flow cytometry, immunohistochemistry, blotting, immunoprecipitation and antibody purification. Zymed Laboratories Inc., 458 Carlton Ct., S. San Francisco, CA 94080, USA.
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<th>COMPOUNDS (99% PURE)</th>
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</table>

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