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, 9560 Rockville Pike, Bethesda, MD 20814, USA.

1995

21-23 May. ASMBMB Joint Annual Meeting with the Division of Biological Chemistry of the American Chemical Society, San Francisco, California, USA. (FASEB Office of Scientific Meetings and Conf., 9560 Rockville Pike, Bethesda, MD 20814-3998, USA)

1-6 July. FASEB Summer Conferences: Biological Methylation, Saxton River, Vermont, USA. (FASEB Summer Ranch Office, 9560 Rockville Pike, Bethesda, MD 20814-3998, USA)


22-27 July. FASEB Summer Conference: Phospholipases, Saxton River, Vermont, USA. (FASEB Summer Ranch Office, 9560 Rockville Pike, Bethesda, MD 20814-3998, USA)

23-29 July. FASEB Summer Conference: Drugs of Abuse—Psychotomimetic Issues Related to Gruelling Dependence and Treatment, Copper Mountain, Colorado, USA. (FASEB Summer Ranch Office, 9560 Rockville Pike, Bethesda, MD 20814-3998, USA)

23-29 July. The 9th International Congress of Immunology, San Francisco, California, USA. (FASEB Office of Scientific Meetings and Conf., 9560 Rockville Pike, Bethesda, MD 20814-3998, USA)

7-9 September. Surfaces in Biomaterials Symposium, Minneapolis, Minnesota, USA. (ARDEL Mgmt., PO Box 26111, Minneapolis, MN 55426-0111, USA)


27-30 September. Molecular and Developmental Biology of Ciliates, Bethesda, Maryland, USA. (Conference Dept., NYAS, 2 E. 63rd St., New York, NY 10021, USA)

8-11 November. APS Conference: New Discoveries within the Pneumococcal Polysaccharide Family: Molecules to Medicine, Newport Beach, California, USA. (APS Nat. Office, 9560 Rockville Pike, Bethesda, MD 20814-3998, USA)

9-13 December. ASCB 45th Annual Meeting, Washington, DC, USA. (FASEB Office of Scientific Meetings and Conf., 9560 Rockville Pike, Bethesda, MD 20814-3998, USA)

Courses and Workshops

1995

14-16 June. Introduction to Molecular Cytogenetics, Gaithersburg, Maryland, USA. (Oncor, Inc., 209 Perry Parkway, Gaithersburg, MD 20877, USA)

22 June. Apoptosis Research Techniques for Histochecmistry, Gaithersburg, Maryland, USA. (Oncor, Inc., 209 Perry Parkway, Gaithersburg, MD 20877, USA)

23 June. Apoptosis Research Techniques for Flow Cytometry, Gaithersburg, Maryland, USA. (Oncor, Inc., 209 Perry Parkway, Gaithersburg, MD 20877, USA)

3-8 July. DNA-binding Proteins & Transcriptional Regulators, Washington, DC, USA. (O. Mgr., CATICMB/103 McCourt-Ward Bldg., The Catholic U. of America, Washington, DC 20064, USA)


12-14 July. Strategies in Mapping, Gaithersburg, Maryland, USA. (Oncor, Inc., 209 Perry Parkway, Gaithersburg, MD 20877, USA)

17-21 July. Protein Purification and Analysis, Washington, DC, USA. (O. Mgr., CATICMB/103 McCourt-Ward Bldg., The Catholic U. of America, Washington, DC 20064, USA)

19 July. Introduction to PCR, San Francisco, California, USA. (S. Chance, Biotechnology Training Programs, Inc., RR 1 Box 149G, Gilman Iron Works, NH 03837, USA)

19 July. Introduction to PCR, Philadelphia, Pennsylvania, USA. (S. Chance, Biotechnology Training Programs, Inc., RR 1 Box 149G, Gilman Iron Works, NH 03837, USA)

20-21 July. Quantitative RNA-PCR, San Francisco, California, USA. (S. Chance, Biotechnology Training Programs, Inc., RR 1 Box 149G, Gilman Iron Works, NH 03837, USA)

21-22 July. Capillary Electrophoresis: Methods and Applications for Molecular Biology, Rockville, Maryland, USA. (O. Mgr., CATICMB/103 McCourt-Ward Bldg., The Catholic U. of America, Washington, DC 20064, USA)

24-25 July. Basic Cloning & Hybridization Techniques, San Francisco, California, USA. (S. Chance, Biotechnology Training Programs, Inc., RR 1 Box 149G, Gilman Iron Works, NH 03837, USA)

24-25 July. Basic Cloning & Hybridization Techniques, Philadelphia, Pennsylvania, USA. (S. Chance, Biotechnology Training Programs, Inc., RR 1 Box 149G, Gilman Iron Works, NH 03837, USA)


2-4 August. Introduction to Molecular Cytogenetics, Gaithersburg, Maryland, USA. (Oncor, Inc., 209 Perry Parkway, Gaithersburg, MD 20877, USA)


13-23 August. Pathogenesis of Neuroimmunological Diseases, Woods Hole, Massachusetts, USA. (Advisory Coordinator, Marine Biological Lab, Woods Hole, MA 02543, USA)

9-20 September. 1995 Symposium and Summer School on Neural Plasticity, Trauma and Regeneration, Isola d’Elba, Italy. (R. Perez-Polo, UTMB, 310 University Blvd., Galveston, TX 77555-0632, USA)

10-12 September. New Approaches, End-Points and Paradigms for R&Ds of Mineral Elements, Grand Forks, North Dakota, USA. (F. Nielsen, USDA, ARS, Grand Forks Human Nutrition Research Ctr., Grand Forks, ND 58202-9034, USA)

14-17 September. The Third International Symposium on Cutaneous Fungal, Bacterial, and Viral Infection and Therapy, San Francisco, California, USA. (O. Mgr., CATICMB/103 McCourt-Ward Bldg., The Catholic U. of America, Washington, DC 20064, USA)

26-29 October. ASIP Course: Concepts in Molecular Biology, Bethesda, Maryland, USA. (ASIP Office, 9560 Rockville Pike, Bethesda, MD 20814-3998, USA)
"TARGETING OF NOVEL THERAPEUTICS TO THE LIVER AND GI TRACT"

SEPTEMBER 21-22, 1995
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NATIONAL INSTITUTES OF HEALTH
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For further information, please contact the Digestive Disease Interagency Coordinating Committee Office, 11426 Rockville Pike, Suite 410, Rockville, MD 20852, tel: (301) 594-5168, fax: (301) 594-1171.

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XII International Symposium on
DRUGS AFFECTING LIPID METABOLISM
Houston, Texas, USA
November 7-10, 1995

CHAIRMEN: A.M. Gotto, Jr. (USA) and R. Paoletti (Italy)

PURPOSE OF THE SYMPOSIUM
The Symposium will focus on VASCULAR PROTECTION AND PATHOBIOLOGY, including lipid metabolism and signaling systems, RISK FACTORS AND EPIDEMIOLOGY, including fibrinogen, tissue factor, factor VII; and NEW HORIZONS IN THE MOLECULAR BASIS OF ATHEROSCLEROSIS, including gene therapy. The most recent discoveries and future trends in research and treatment will be discussed by leading scientists in the field.

ORGANIZING SECRETARIAT

XII DALM
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Via Appiani 7
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ABSTRACT DEADLINE: JUNE 5, 1995

The Protein Society
Ninth Annual Symposium
Boston, Massachusetts July 8-12, 1995

Plenary Lectures By: Leroy Hood, Phillip Sharp, Judith Klinman, Christopher Dobson

Sessions

• Computational Insights into Structure and Function.
• Enzymology I, Enzymology II
• Protein Design
• Microscopy of Macromolecular Complexes
• Rational Drug Design vs. Combinatorial Chemistry
• Nonspecific Binding of Proteins and Nucleic Acids
• HIV Proteins and Enzymes
• Protein/Nucleic Acid Recognition
• DuPont Merck Young Investigator Award
• Stein and Moore Symposium honoring Harold Scheraga
• Protein-Protein Interactions
• Partially-Folded Proteins
• Mechanisms of Regulation

Workshops

• The Federal Role in Protein Engineering
• Biophysics in the Fast Lane
• Combinatorial Chemistry

Keynote Banquet Speaker
Dr. Arthur Kornberg - Dr. Kornberg is Professor of Biochemistry at Stanford University School of Medicine and founder of the DNAX Research Institute of Molecular and Cellular Biology (Div. of Schering-Plough, Inc.). His many accomplishments include a Nobel Prize in Medicine.

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The checkerboard DNA hybridization system allows you to simultaneously perform up to 1,350 probe hybridizations on a single membrane. Target DNA sequences, either purified or in cell lysates, are first applied to the membrane in horizontal lines using a MiniSlot™ vacuum aspiration device. Membranes are then transferred to a Miniblotter®, where probes are introduced into parallel vertical incubation channels. Hybridizations may be carried out according to standard protocols using chemiluminescent or radiolabelled probes. The resulting checkerboard hybridization can be quantitated by scanning densitometry. Immunetics, 380 Green St., Cambridge, MA 02139, USA.

BRL BAC-TO-BAC™ baculovirus expression system produces extraordinarily high levels of recombinant protein from insect cells in as little as 1 week compared to the 3 to 6 weeks required by standard homologous methods. Unlike other baculovirus expression vector systems, which require homologous recombination in insect cells, the BAC-TO-BAC system uses site-specific transposition to produce recombinant viral DNA in E. coli hosts. Life Technologies, Inc., 8717 Grosvenor Ci., PO. Box 6009, Gaithersburg, MD 20884-9980, USA.

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The compact FOTO/Phorisis® UV transilluminator, well-known for safe visualization and photography of DNA mini-gels, now allows this transilluminator to be used for mutagenesis experiments and other applications. The transilluminator has an acrylic frame that perfectly positions not only a mini-gel, but also a standard 100 mm Petri plate in the UV light path. This frame also holds a camera with photographic hood in place while shielding the user from accidental exposure to UV light. A patented UV-blocking, safety interlocking cover makes it possible to safely view the subject without wearing UV-blocking eyeglasses. FOTODYNE® Inc., 950 Walnut Ridge Dr., Hartland, WI 53029, USA.

First-ever measurements of cardiac output in mice followed the thermodilution method using Cardiomax Cardiac Output Computer equipped with Columbus Instruments F #1 thermodilution microprobe. Measurements were performed by injection of 20 to 40 microliters of room-temperature injectate (saline) into the vena cava through the right external jugular vein. The thermodilution microprobe was inserted into the aortic arch through the left carotid artery. Several subsequent measurements of cardiac output can be performed at an interval of 2 to 3 minutes with consistent and repetitive results. The same computer that was used for mice can also be used for measuring cardiac output of rats, as well as larger animals. Columbus Instruments, PO. Box 44049, Columbus, OH 43204-0049, USA.

ADAM (9-Anthryldiazomethane) is a fluorescent and ultraviolet reagent for fatty acid analysis that reacts with carboxylic acids at room temperature to give fluorescent esters, which can be quantitated with HPLC. No heating or catalyst is required. Most organic solvents can be used as a reaction medium. ADAM can be used to detect picomole quantities of fatty acids and as an accurate, simple, and specific way to routinely measure microgram amounts of oxalic acid in biological samples such as urine. Kamiya Biomedical Co., PO. Box 6067, Thousand Oaks, CA 91359.

Two new sequencing grade enzymes, endoproteinas Asp-N and Glu-C, are now available. Endoproteinase Asp-N, isolated from Pseudomonas fragi mutant strain, specifically cuts the aspartate N-end of residual radicals of both proteins and peptides. Endoproteinase Glu-C, isolated from Staphylococcus aureus V8, specifically cuts the C-end of glutamic acid when using bicarbonate ammonium buffer solution (pH 7.8) or ammonium acetate buffer solution (pH 4.0), and specifically cuts the C-end of glutamic acid and aspartic acid when using phosphoric acid buffer solution (pH 7.8). A new size for lysyl endopeptidase, 2 AU, should be more convenient for the small laboratory or first-time user. Wako Bio Products, 1600 Bellwood Rd., Richmond, VA 23237, USA.
A line of anti-fas antibodies for studying apoptosis is available. Fas antigen (CD95) belongs to the family of low-affinity nerve growth factor receptors, which also includes tumor necrosis factor receptors. Fas antigen mediates apoptosis. Three different clones that recognize the fas antigen are available. They do not cross-react with TNF receptors. CH-11 is an IgM antibody that induces apoptosis. ZB-4 is an IgGl antibody that inhibits apoptosis. UB-2 is an IgGl antibody that is used to stain apoptotic cells for flow cytometric analysis. CH-11 antibody is available in a purified, freeze-dried format; ZB-4 antibody in a purified liquid form; and UB-2 antibody in a purified, liquid form or conjugated to FITC or phycoerythrin.

The DAKO® CSA system, HRP, is a sensitive IHC staining procedure for monoclonal antibodies that uses an enzyme-catalyzed deposition of biotin, which results in a greatly amplified signal, allowing detection of small quantities of reactive antigen. Significantly, the system enables certain monoclonal antibodies that are normally not compatible with formalin-fixed, paraffin-embedded sections to be used on such specimens. Dako Corp., 6392 Via Real, Carpintera, CA 93013, USA.

A gel dryer features a uniform application of heat and vacuum, minimizing distortion and cracking. The dryer's controlled heating system eliminates hot spots, allowing slower drying at temperatures up to 80°C. Other unique features include a timer that sets up to 5 h, a translucent silicone cover for easy visualization while drying, and a large drying surface (37 x 47 cm). Uniform heating with a vacuum-tight seal makes the gel dryer a good choice for controlled, reproducible drying in the life science laboratory. Whatman LabSales, Inc., 5285 N.E. Elam Young Pkwy., Ste. A-400, Hillsboro, OR 97124, USA.

The TaqMan™ LS-50B PCR detection system, which promises to make PCR a routine assay for quantitative sequence detection, uses a 5' nuclease assay incorporated into the TaqMan™ PCR reagent kit. The kit includes PCR primers and a fluorogenic probe that emits fluorescence only if the target sequence is amplified. The system, which can detect up to 96 samples in just 7 minutes, consists of the new TaqMan PCR reagent kit and the LS-50B luminescence spectrometer. It is also optimized for use with the company's industry-standard GeneAmp® PCR System 9600. The Perkin-Elmer Corp., 761 Maine Ave., Norwalk, CT 06859-0310, USA.

Oligonucleotides are labeled to a very high specific activity, typically 60-80%, and are complementary to widely used plasmid primer sites, making them suitable for synthesis of fluorescent DNA probes from most cloning vectors. The sequences can be labeled at one or both ends, depending on the particular application. These primers are particularly useful for detection using fluorescence polarization techniques due to the extremely short spacer arm incorporated in the phosphoramidite and the high specific activity. Fluorescein-labeled amplified products can also be used for fluorescence in situ hybridization or in direct detection by simple fluorescence. Suitable for a variety of enzymatic labeling methods, including PCR, the available oligonucleotides include T7, SP6, M13 Forward, M13 Reverse, and Oligo dT. PanVera Corp., 565 Science Dr., Madison, WI 53711, USA.

The HotWax OptiStart™ kit optimizes three key parameters of any PCR: non-specific priming, MgCl2 concentration, and pH of the reaction, all of which can cause background and reduce the yield of your product. The kit utilizes HotWax™ Mg2+ beads, which release MgCl2 into the PCR reaction when the wax bead melts during the first denaturation step, providing a fast and easy hot start to your PCR. Invitrogen, 3985 B Sorrento Valley Blvd., San Diego, CA 92121, USA.
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With typical yields of 100-160 µg of RNA from just 1 µg of DNA template, the AmpliScribe high-yield transcription kits permit the synthesis of the maximum possible amounts of RNA from in vitro transcription reactions. The novel preparations of T7, T3, and SP6 phage RNA polymerase transcribe up to 30-fold more RNA than standard in vitro transcription kits and can be used to produce transcripts ranging in size from <100 bases to multi-kilobase sizes. T7, T3, and SP6 kits are useful for the economical synthesis of large amounts of RNA for in vitro translation, microinjection, and cDNA synthesis. Reaction products can also be used in the study of anti-sense RNA, ribozymes, RNA-binding proteins, RNA splicing or processing, gene expression and RNA structural determination. 

Epicentre Technologies, 1402 Emil St., Madison, WI 53713, USA.

An exclusive human fibronectin ELISA kit measures fibronectin from both plasma and cellular extracts. The assay is a 3-h protocol with a range of 25-2000 nanograms per ml. The kit is in a 96-well (precoated strip) format and includes all the necessary reagents to perform the assay. Biomedical Technologies Inc., 378 Page St., Stoughton, MA 02072, USA.

Tyrosine kinase assay kits are nonradioactive kits used for the quantitation of tyrosine kinases. They are based on an ELISA plate assay where all the reactions occur directly in the microtitrate plate wells. These nonradioactive assays use specific peptide substrates that are biotinylated at the amino terminus. The substrates are bound to Neut-Avidin-coated strip plates. A kinase-containing sample and ATP are then added to the wells, resulting in the phosphorylation of the substrate. Anti-phosphotyrosine labeled with horseradish peroxidase is then added for the specific detection of phosphotyrosine residues. The tyrosine kinase activity is detected using a soluble one-component colorimetric substrate. Quantitative results can be achieved in under 3 h. Three kits are available, each containing a different biotinylated tyrosine kinase substrate. The kits can be used to assay for transmembrane receptor, transmembrane non-receptor, and cytosolic nonreceptor tyrosine kinases. Pierce Chemical Co., 3747 North Meridian Rd., PO. Box 117, Rockford, IL 61105, USA.

Literature

A 300-page catalog for 1995 describes a full line of HPLC columns and accessories. Microbore, minibore, analytical, preparative, rapid analysis, and guard columns are offered for a wide variety of phases and applications. New columns include Star-Ion IC for EPA Method 300 anions, rugged and ultra-pure silica-based columns, and columns for biopolymer separations. Expanded product lines include chiral HPLC and capillary electrophoresis columns. Phenomenex, Inc., 2320 W. 205th St., Torrance, CA 90501, USA.

More than 1500 new products are included in a four-color catalog, with 200 pages of laboratory instrumentation equipment and supplies for use in the laboratory and the field. The catalog includes complete sections for pH instruments and electrodes, environmental analysis, glassware, cuvettes, refractometers and plasticware, safety products, and additions to "specialty" lab supplies and has information on a portable electronic laboratory, hand-held meters and monitors, environmental samplers, rugged hot plate stirrers, and a line of high purity gas generators. Markson, 5285 N.E. Elam Young Pkwy., Ste. A-400, Hillsboro, OR 97124-6462, USA.

The 8th edition of the ATCC/NIH Repository Catalogue of Human and Mouse DNA Probes and Libraries lists the following materials available: probes and cloned genes for human or murine loci; YACs for human chromosome X and Y; oligonucleotides; human chromosome-specific genomic libraries; cDNA and genomic libraries; oncogene/transforming protein probes and clones; selected probes detecting polymorphism; bacterial hosts for transformation or plating libraries; human brain cDNA clones; and the CEPH/ATCC chromosome 1 mapping kit. The catalog also includes literature citations and general information on handling cultures. American Type Culture Collection, MKT:NR64, 12301 Parklawn Dr., Rockville, MD 20852, USA.

A complete line of pipet-aid and pipet-aid accessories is described in a brochure. Specifically featured is the portable Pipet-Aid XP, which provides nine independently controlled fill-and-empty speed options to select the best speed range combination for each application. At 7.5 ounces, the portable pipet-aid XP is 25% lighter for better comfort and control. Drummond Scientific Co., 500 Parkway, Box 700, Broomall, PA 19008, USA.

The Genemed Custom Synthesis catalog is for researchers who need custom synthesized oligonucleotides and peptides. The catalog specifies which special service is best suited for a particular application, either for PCR scale or research/standard/large scale(s). Different choices are available for oligonucleotide purification (HPLC, PAGE) and the wide range of analytical techniques for peptides. Extensive lists of modifications and labeling are offered, from amino arm linker, thio arm linker, multi-OH linker for oligonucleotides, to phosphorylation, silylation, sulfonation, and various fluorescein/dye labeling for peptides. Genemed, 458 Carlton Ct., Ste. B, South San Francisco, CA 94080, USA.

The 8-page, full-color brochure, DNA Sequencer 725: Affordable Automated Fluorescent Sequencing, features instrumentation, software, and reagents that comprise the system designed to replace traditional manual film-based sequencing methods. The system automates gel electrophoresis, band detection, lane tracking, and sequence assignment. The system's features are depicted with photographs, illustrations, and screen-capture graphics. A special section lists the various sequencing reagents available for use with the system. Molecular Dynamics, 928 E. Arques Ave., Sunnyvale, CA 94086-4520, USA.
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