A comprehensive calendar is published 4 times a year (January, April, July, and October); new items appear in other months. The calendar lists open meetings of interest to our readers: conferences, symposia, courses, and workshops. To have your event included, please provide the days(s) and year of the meeting, its title and location, and a contact name and address and send it to Calendar Editor, The FASEB Journal, 9650 Rockville Pike, Bethesda, MD 20814, USA.

6-9 March 1991. 2nd International Congress on The Immune Consequences of Trauma, Shock and Septicaemia, Munich, FRG. (Dr. E. Fast, Local Organizing Secretary, Ludwig-Maximilians-Universitat Munich, Klinikum Grosshadem, Postfach 70 12 60, Munich, FRG)


20-22 March 1991. 7th Tenovus Scotland Symposium: Eukaryotic Genes and Their Expression, Glasgow, United Kingdom. (Dr. J.C. Furlong, MRC Virology Unit, Inst. of Virology, U. of Glasgow, Church St., Glasgow G5 5JF, UK)

21-24 March 1991. MAIZE Genetics Conference, Delavan, Massachusetts, USA. (Dr. J.A. Birchler, Steering Committee, MAIZE Genetics Conf., Harvard U., 16 Divinity Ave., Cambridge, MA 02138, USA)


7-11 April 1991. Bedox Cofactors and Metals in Proteins, Konstanz, FRG. (Dr. P.M. Kroneck, Universitat Konstanz, Fakultat fur Biologic, Postfach 5560, D-7750 Konstanz, FRG)


8-11 April 1991. The Second International Conference on Sodium/Calcium Exchange, Baltimore, Maryland, USA. (Marketing Dept., NYAS, 2 E. 63rd St., New York, NY 10021, USA)

9-11 April 1991. Genetical Society of Great Britain: Genes and Proteins, York, United Kingdom. (Dr. J.P.W. Young, John Innes Inst., Colney Lane, Norwich NR4 7UH, UK)


21-23 April 1991. X-ray Microanalysis in Biology, Manchester, United Kingdom. (Dr. DC. Sigle, Dept. of Cell and Structural Biology, School of Biological Sciences, U. of Manchester, Stopford Bldg., Oxford Rd., Manchester M3 9PT, UK)

21-25 April 1991. FASEB Annual Meeting, Atlanta, Georgia, USA. (FASEB Office of Scientific Mgmts., 9650 Rockville PI., Bethesda, MD 20814, USA)


20-21 May 1991. Animal Models in Immunotoxicology: Species Selection, Research Triangle Park, North Carolina, USA. (Immunotoxicology Discussion Group, c/o D.M. Hinton, P.O. Box 4878, Silver Spring, MD 20904, USA)


3-6 June 1991. CDS Cells in Development and Disease, Palm Beach Gardens, Florida, USA. (Marketing Dept., NYAS, 2 E. 63rd St., New York, NY 10021, USA)


7-13 July 1991. Surface and Colloid Science: 7th Int'l.Congress, Compiègne, France. (Secretariat of the 7th ICS, A. Charnes, A. Courtes, Wagon-Lit Tourisme-60 rue Kleber, BP 244, F-92906 Levallois-Perret, Cedex, France)


Courses & Workshops

12-15 March 1991. Penn State University: Fermentation Methods and Scale-Up Strategies, University Park, Pennsylvania, USA. (Jim Shillen, Biotechnology Inst. and Bioprocessing Resource Ctr., 519 Warrick Laboratory, University Park, PA 16802, USA)

19-23 March 1991. Cell Culture and Hybridomas: Quality Control and Cryopreservation Techniques, Rockville, Maryland, USA. (ATCC, Workshop Manager, 12301 Parklawn Dr., Rockville, MD 20852, USA)

16-20 March 1991. Continuous CellLines: An International Workshop on Current Issues, Bethesda, Maryland, USA. (Michele Dillon, Clinical Center, NIH Campus, Bethesda, MD 20296, USA)


16-20 August 1991. ASPE1 Annual Meeting, San Diego, California, USA. (ASPE1 Nat'l. Ofc., 9650 Rockville Pk., Bethesda, MD 20814, USA)

18-23 August 1991. ASCB/EMBO Summer Conferences: Molecular Cross-Talk Between Epithelial Cells and Pathogenic Microorganisms, Arida1a, Switzer1and. (Dr. Marian Neutra, G1 Cell Biology Lab, Children's Hosp., 300 Longwood Ave, Boston, MA 02115, USA)


7-10 May 1991. Penn State University: Mammalian Cell Culture Methods, University Park, Pennsylvania, USA. (Jim Shillen, Biotechnology Inst. and Bioprocessing Resource Ctr., 519 Warrick Laboratory, University Park, PA 16802, USA)


11-21 May 1991. Biosensors and Their Application to Biotechnology, Newcastle-upon-Tyne, United Kingdom. (Courses Dept., British Council, 10 Spring Gardens, London SW1A 2BN, UK)


21-27 April 1991. 4th International School of Medical Genetics, Trieste, Italy. (Laboratory of Molecular Genetics, Instituto G. Gaslini, 16148 Genova, Italy)

12-14 October 1991. ASMBB Fall Conference: Biological Significance of Lipid Modification of Proteins, Keystone, Colorado. (ASMBB Office, 9650 Rockville Pk., Bethesda, MD 20814, USA)


5-7 December 1991. First European Congress on Nutrition and Health in the Elderly, Noordwijkerhout, The Netherlands. (M. Hoogkamer, Dept. of Human Nutrition, Wageningen Agricultural U., P.O. Box 8129, 6700 EV Wageningen, The Netherlands)

17-24 January 1992. The 1992 Miami Bio/Technology Winter Symposium, Miami Beach, Florida, USA. (Miami Bio/Technology Winter Symposium, P.O. Box 010129, Miami, FL 33101-0129, USA)

5-9 April 1992. FASEB Annual Meeting, Anaheim, California, USA. (FASEB Ofic. of Scientific Mgrs., 9650 Rockville Pk., Bethesda, MD 20814, USA)

5-9 August 1992. 9th World Congress: International Association for the Scientific Study of Mental Deficiency, Gold Coast, Australia. (Dr. Terrence Donlan, Waisman Ctr., U. of Wisconsin-Madison, Madison, WI 53705-2280, USA)

30 August-4 September 1992. IXth International Congress on Photosynthesis, Nagoya, Japan. (Prof. Norio Murata, IXth Int'l. Congress on Photosynthesis, Nat'l. Inst. for Basic Biology, Okazaki 444, Japan)


16-23 June 1991. AAI Course in Advanced Immunology, Colorado Springs, Colorado, USA. (Drs. C.W. Pierce and J.A. Kapp, Jewish Hosp. of St. Louis, CSB-7, Dept. of Path., AAI Course, 216 S. Kingshighway, St. Louis, MO 63110, USA)


25-28 June 1991. Penn State University: Fermentation Methods and Scale-Up Strategies, University Park, Pennsylvania, USA. (Jim Shellen, Biotechnology Inst. and Bioprocessing Resource Ctr., 519 Warrick Laboratory, University Park, PA 16802, USA)


12-19 July 1992. Molecular and Developmental Biology of Drosophila: EMBO Workshop, Kolymbari, Crete. (Dr. S. Aravanis-Tsakonas, Dept. of Biology, Kline Biology Tower, P.O. Box 6666, New Haven, CT 06511-8112, USA, USA)


13-16 August 1991. Fermentation Microbiology, Rockville, Maryland, USA. (ATTC, Workshop Manager, 12301 Parklawn Dr., Rockville, MD 20852, USA)


24-27 September 1991. Penn State University: Bioreactors for Cell Culture, University Park, Pennsylvania, USA. (Jim Shellen, Biotechnology Inst. and Bioprocessing Resource Ctr., 519 Warrick Laboratory, University Park, PA 16802, USA)

15-18 October 1991. Penn State University: Fermentation Methods and Scale-Up Strategies, University Park, Pennsylvania, USA. (Jim Shellen, Biotechnology Inst. and Bioprocessing Resource Ctr., 519 Warrick Laboratory, University Park, PA 16802, USA)

12-15 November 1991. Penn State University: Mammalian Cell Culture Methods, University Park, Pennsylvania, USA. (Jim Shellen, Biotechnology Inst. and Bioprocessing Resource Ctr., 519 Warrick Laboratory, University Park, PA 16802, USA)

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PROTEIN KINASE C INHIBITORS

NEW

CALPHOSTIN C and STAUROSPORINE
extremely specific and potent PKC inhibitors

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<th>IC50 value (uM)</th>
<th>Calphostin C</th>
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<td>p60SRC Protein Tyrosine kinase</td>
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OTHER NEW ENZYME INHIBITORS

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<td>Protein Kinase A Inhibitor</td>
<td>Protein Tyrosine kinase Inhibitor</td>
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FOR RESEARCH USE ONLY

KAMIYA BIOMEDICAL COMPANY
P.O. Box 6067, Thousand Oaks, CA 91359
Phone (818) 706-8564
FAX (818) 706-8763

Circle 5 on Reader Service Card


Ambion’s new RNase Cocktail™ is a mixture of highly purified ribonucleases A and T1. The RNase T1 is purified from an E. coli strain that overexpresses the protein. The RNase Cocktail is free of DNase and nicking activities and is suitable where it is desirable to degrade RNA, i.e., plasmid minipreps. The figure shows [32P] end-labeled RNA contamination in plasmid minipreps after ethanol precipitation. Contamination is markedly reduced after treatment with RNase Cocktail compared with typical RNase A treatment alone.

Ambion  
Circle 82

The sCD23 Elisa kit is designed to quantitate levels in serum, plasma, other body fluids, and culture supernatants. For in vitro use only. Soluble CD23 (sCD23—a low-affinity IgE receptor present on the surface of lymphocytes and inflammatory cells) serum levels have been shown to be increased in B-CLL, patients (but not in other B-lymphocyte tumors); patients undergoing autologous or allogenic bone marrow transplants; and allergic patients and patients with rheumatoid (but not osteo-) arthritis. Correlations between sCD23 levels and disease progression/therapeutic success have been indicated. Studies are also under way to determine whether the very high levels of CD23 present in the lymph nodes of HIV infected patients are reflected in body fluid levels of sCD23.

The Binding Site  
Circle 70

A unique combination pH/temperature probe of extremely small size and sensitivity has been developed. Physitemp Instruments has integrated its well-known miniature thermocouple technology with a new polymer-based pH sensor. A flexible-tip dipstick version with 0.6 mm tip enables measurement of pH and temperature in microwell and capillary tube samples as small as 0.2 µl. A durable 21-gauge needle version allows insertion into laboratory animals, gels, reactor ports, etc. Low impedance and a tiny thermocouple reduce AC interference and increase stability and allow accurate temperature compensated pH reading of solutions or tissues. No external reference probe is necessary.

Physitemp Instruments  
Circle 78

A sophisticated, user-friendly microscope for complex image analysis, photometry, quantitative video recording, automated microscopy and critical photomicrography has been designed with the input of life scientists across the U.S. as an ideal system for image analysis, video, and automated microscopy. With its dual photo/video ports, the Microphot SA can accommodate two photo or video systems simultaneously, including closed circuit television, photometry systems and photomicrographic devices.

The rear port accepts an 0.8X reduction lens for wide-field video; an exclusive prism design provides total image control at all photo ports. The beam splitter prism can be removed so that 100 percent of the available light goes to the principal detector. Virtually all optical techniques for viewing and capturing images are possible with the Microphot-SA microscope, including brightfield/darkfield, reflected light, episcopic fluorescence, phase contrast, differential interference contrast, polarized light and metallurgical reflected light techniques. Nikon’s full line of more than 130 CF optics is compatible with the instrument, offering tremendous versatility. Stages with travel of up to 4" are accepted, and the instrument is fully compatible with Nikon’s complete line of research microscopy accessories.

Nikon  
Circle 81

Endogen, Inc., a leading developer of cytokine products for immunological research, introduces ENDOGEN GM-CSF ELISA™, the first of a line of second generation Elisa kits developed to simplify cytokine testing. In less than 3 hours, the kit measures levels of natural and recombinant human Granulocyte Macrophage Colony Stimulating Factor (GM-CSF) in serum, EDTA-plasma, citrated plasma, and tissue culture supernatants. The in vitro enzyme-linked immunosorbent assay was designed for researchers studying the immunological effects of GM-CSF in leukemia, AIDS, transplant rejection, and other immune disorders.

Endogen  
Circle 72
Optically clear gel staining trays are a great timesaver when photographing gel samples. They are stackable, so multiple samples can be rocked at the same time. The 7.5" x 7.5" interior fits most gel sizes, and the raised feet protect optical surfaces. This economic gel staining tray is reusable, durable, and stain resistant with frosted labeling surfaces for easy ID. Available in convenient 4-paks.

Midwest Scientific Circle 80

The β-RAM is an on-line radioactivity quantitation system of $^3$H, $^4$C, $^{32}$P, $^{35}$S, other beta or soft gamma emitters for HPLC techniques. New concepts in instrument control allow the detector to be an integral part of any liquid chromatography data system. Flexible interfacing options eliminate the need for a dedicated controlling computer. Features include data acquisition/processing software that follows GLP guidelines; sample data sent in real-time, or stored for post run processing; two independent radio channels; and three analog inputs for mass detectors.

IN/US Systems Circle 87

The Wheaton Calibra™ incorporates fixed factory calibrated stops for each volume increment. Volume is set with the adjustment knob located at the top of the micropipette, and the setting is digitally displayed. The plunger assembly features stainless steel and Teflon™ construction for a high degree of chemical resistivity. The two smaller volume units feature nozzles precision machined of stainless steel, allowing flaming of the nozzles in microbiological applications.

Wheaton Circle 73

The ISO-STAT™ test allows a sensitive and specific determination of mouse monoclonal antibody class and subclass in just 5 minutes. The semi-quantitative enzyme immunoassay uses affinity-purified, isotype-specific antibodies bound to a test membrane. The differentiation between IgG1, IgG2a, IgG2b, IgG3, and IgM is done using a single test cartridge. The test is particularly useful for characterizing monoclonal antibodies and class-switch variants, performing simple and reliable quality control of bioreactor and ascites products, and monitoring purification processes.

SangStat Medical Circle 74

The Econo-Pac IgG purification kit, a complete DEAE Affi-Gel® blue gel-based kit for rabbit and human serum IgG purification, contains everything necessary for purification of IgG from serum, including prepacked DEAE Affi-Gel blue columns, desalting columns for sample preparation, and premixed application and regeneration buffers. Five serum IgG purification columns are provided in each kit. Up to 15 ml of serum can be prepared and purified at a time. The kit also contains a regeneration buffer for column clean-up after each cycle. Each Econo-Pac serum IgG purification column can be re-used approximately 8 to 10 times. These advantages make the Econo-Pac serum IgG purification kit a valuable tool for fast serum IgG purification.

Bio-Rad Circle 68

Model WB10 simplifies and improves Western blot analyses. Instead of using large volumes of reagents in open containers on shakers-rockers, the Model WB10 performs all membrane incubation and washing steps with only a few ml of antiserum in screw-capped glass tubes. The tubes containing membrane and reagent are continuously rotated with a unique tri-directional mechanical motion. As many as 10 large tubes or 20 small tubes, each containing more than one membrane, may be rotated at the same time. The rotator is also useful for room temperature (4–37°C) pre-hybridization and washings of Northern and Southern blots.

Robbins Scientific Circle 71

The ST4 clot detection system is a compact, integrated, stand-alone workstation with a built-in printer. Microprocessor control consolidates LCD display, pre- or self-programmed assay parameters, stored calibration curves, temperature control, and data reduction. Four separate channels provide multitest flexibility. Instrument sensitivity detects a 30 mg/dL threshold for Fibrinogen, and the detection system is unaffected by sample turbidity. ST4 is programmed for all clotting-based assays including Heparin, Fibrinogen, Protein C, Protein S, Reptilase and Thrombin Times, and Factor Assays.

American Bioproducts Circle 85
A combination CD4-FITC/CD8 Phycocerythrin reagent for two-color flow cytometric analysis allows simultaneous two-color staining from a single vial. It provides balanced two-color fluorescence while minimizing spectral overlap between FITC and PE channels. This high-affinity reagent complements existing single-color FITC, PE, and Biotin-labeled reagents for applications in multicolor analysis.

**Olympus**  Circle 83

**Anti-vibration balance tables** effectively dampen routine vibrations. Especially good for sensitive laboratory balances, e.g., semi-micro, micro, and ultra micro models, and other scientific instruments often subjected to continuous or intermittent high-frequency vibrations. Available in desk-height or standard laboratory workbench-height models, the tables are rigidly constructed of Formica-covered wood with no vibration-transmitting metal parts; they do not require bolting to the floor.

**Brinkmann Instruments**  Circle 69

**Software**

Keyboard Publishing Inc. has released the Keyboard Pathology Series, computer software for the Apple Macintosh designed to assist pathologists in the classroom and the laboratory. The series consists of three HyperCard modules: a TextStack containing W.B. Saunders’ *Robbins Pathologic Basis of Disease*, an acknowledged standard throughout pathology; a QuizBank including over 2400 questions covering all aspects of pathology; and a Videolndex of over 1600 images taken from the University of Utah’s Slice of Life videodisc. Modules may be purchased separately or together. The Keyboard Pathology Series is the first of a series of software publications for education and reference.

**Keyboard Publishing**  Circle 66

**Literature**

A full-color 19" x 20" poster features Taconic’s MPF mice and rats (more than 20 strains). Information is offered on each of Taconic’s animal strains: the strain, breeding method, ILAR designations, and description of each strain’s principle characteristics.

**Taconic**  Circle 75

A 47-page catalog, *Laser Diagnostic Systems*, provides technical background, product descriptions and specifications on Fabry Perot interferometers, Wavemeters™, spectrum analyzers, and diagnostics for pulsed lasers and laser diodes.

**Burleigh Instruments**  Circle 67

Rheodyne’s complete line of sample injectors, switching valves, and accessories for liquid chromatography details dual and single-mode high pressure sample injectors, loops, fittings, and valve accessories, high pressure switching valves, pneumatic actuators, low pressure Teflon valves, and filters and relief valves.

**Rheodyne**  Circle 65

**Fisher Instrument Service**, a bulletin from Fisher Scientific, describes its capabilities in the service and repair of laboratory equipment. Operating from some 30 cities, the Service division’s personnel will service not only the several thousand products the company makes or distributes but also many of the personal computers used in the contemporary laboratory. Manufacturers range from Ames and Bausch & Lomb to Yellow Springs and Zeiss. Included are analytical balances, centrifuges, gas chromatographs, pH meters, recorders, spectrophotometers, titrators, and vacuum ovens.

**Fisher Scientific**  Circle 90

**Extras** details the newest products available for life science research. The current issue includes product and applications information on thermostable DNA polymerase, radiation safety products, genomic grade restriction enzymes, double digest buffer kit, DNA ligation system, DNA blunting kit, 5’-end labeling kit, a hand-held computer for laboratory use, and nylon blotting membranes.

**Amersham**  Circle 77

**Protein Purification Notes** provides information on methods and instrumentation for purifying biomolecules, including technical articles on advances in protein isolation techniques, with an emphasis on improving speed, resolution, and the recovery of biologically active species. The 12-page publication also includes information on how to order a new videotape on fast protein liquid chromatography. The tape shows how to fractionate a crude protein mixture and recover a highly active protein.

**Waters**  Circle 76

Vol. 5  February 1991
POSITIONS AVAILABLE — Classified advertisement: $25.00 per line (70 characters), $250.00 (10 line) minimum. Display advertisement: $700.00 for ¼ page, 3½ inches × 4½ inches; $1000.00 for ½ page, 3½ inches × 9½ inches (vertical) or 7¾ inches x 4½ inches (horizontal); $1400.00 for full page, 7½ inches × 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 $40.00 for identification of up to 10 advertisers, plus $4.00 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 $40.00 for up to 10 identifications, plus $4.00 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 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 annual meeting, see January, February or March issue or contact the Placement Service.

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

POSITIONS AVAILABLE

HUMAN NUTRITIONIST. The Department of Food Science and Human Nutrition seeks an assistant or associate professor for a tenure-track position in nutrition. The selected individual is expected to participate in the undergraduate and graduate teaching programs of the department and to develop an independent research program that will complement the interdisciplinary program of the Center for Designing Foods to Improve Nutrition, which is presently under construction. The Center will house a human metabolism laboratory and its faculty will have access to unique analytical facilities. Candidates should have expertise in experimental clinical or basic human nutritional science and have the ability to interact effectively with other scientists in areas related to human nutrition. A doctoral degree in nutrition or related life science area is required. Teaching and postdoctoral research experiences are preferred. Submit letter of application, CV and names of at least three references to Dr. Murray L. Kaplan, Chair of the Search Committee and Coordinator, Center for Designing Foods to Improve Nutrition, Department of Food Science & Human Nutrition, 107 MacKay Hall, Iowa State University, Ames, IA 50011. Deadline for application is March 1, 1991 or until position is filled. Iowa State University is an equal opportunity/affirmative action employer. Women, minorities and members of other protected groups are encouraged to apply.

RESEARCH DIRECTOR. Work with the clinical faculty of a medical school in the Center for Osteopathic Research and Education. Prior experience conducting research with human subjects, grant writing, managing grants and reporting to funding agencies is desired. Expertise in research design evaluation, statistical analysis and grantmanship are essential to the position. Preference will be given to those who have engaged in collaborative research, have prior training in medical clinical research, have experience in clinical research and/or have an earned doctorate in a related field. Postdoctorate fellowship desired. The person assuming this position will work with clinical teaching faculty to design and execute research projects which focus on osteopathic principles and practices. Salary negotiable, depending upon experience and demonstrated ability. Contact Russell G. Gamber, D.O., Center for Osteopathic Research and Education, Texas College of Osteopathic Medicine, 3500 Camp Bowie Boulevard, Fort Worth, TX 76107. T.C.O.M. is an equal opportunity/affirmative action employer.

POSTDOCTORAL FELLOWSHIP. Funding is available to support individuals with Ph.D. or M.D. for postdoctoral training in neurobiological and behavioral development. This program emphasizes an interdisciplinary approach to studies of the development of the nervous system and provides formal training in a broad range of developmental topics. Contact Dr. Sally A. Moody, Department of Anatomy, Box 439 Health Sciences Center, University of Virginia, Charlottesville, VA 22908. Minority applications are encouraged.
The National Institute of Dental Research (NIDR) invites nominations and applications for the position of Deputy Director, National Institute of Dental Research. This is a Civil Service position in the Senior Executive Service. The salary range is ES-1 to ES-4, currently $71,200 to $79,200 per annum. Projected salary range beginning January 1991 is $87,000 to $100,500 per annum. The person selected may be eligible for Physicians Comparable pay up to $20,000 per year. A one-year probationary period must be served by the individual selected if not currently in the Senior Executive Service.

The Deputy Director, NIDR, shares responsibility with the Director, NIDR, for the scientific and administrative management of a national program of basic and clinical research and training directed at the causes, diagnosis, treatment and prevention of oral diseases and disorders. The incumbent has full authority to speak for the Institute and on behalf of the Director.

Applicants must meet the minimum educational requirements (or possess equivalent combination of experience and training) for Dental Officer, GS-680; Medical Officer, GS-602; General Health Science, GS-601; or an allied scientific discipline, as defined by the U.S. Office of Personnel Management Handbook X-118, Qualification Standards for Positions Under the General Schedule, which is available in Federal Personnel Offices and Federal Job Information Centers. Further information about the position and qualification requirements may be obtained by contacting Ms. Carol M. Beasley, (301) 496-6971. An Application for Federal Employment (SF-171), accompanied by a current curriculum vitae and bibliography, should be submitted to:

Ms. Carol M. Beasley  
Personnel Officer  
National Institute of Dental Research  
National Institutes of Health  
Building 31, Room 2C-23  
9000 Rockville Pike  
Bethesda, MD 20892

Applications must be received by  
February 28, 1991

Selection for this position will be based solely on merit, with no discrimination for non-merit reasons such as race, color, religion, sex, national origin, politics, marital status, physical or mental handicap, age, or membership or non-membership in an employee organization.

NIH is an Equal Opportunity Employer

MOLECULAR BIOLOGIST

The Institute of Chemical Toxicology, Wayne State University is seeking to fill tenure-track faculty positions at the associate/full professor level in the area of eukaryotic molecular biology. Preference will be given to applicants interested in regulation of gene expression to include those with experience in oncogenes, growth factors, retroviruses and in the molecular/cellular effects of toxic substances and carcinogens (e.g., DNA repair). Applicants in other areas of eukaryotic molecular biology will be given serious consideration. The Institute of Chemical Toxicology offers a research-intensive environment and faculty are expected to develop vigorous, independent, extramurally-funded research programs. Excellent new laboratories, equipment, support facilities and generous start-up funds are available. Candidates should have a Ph.D., M.D./or D.V.M. and a strong track record in research. Send CV and a brief description of research interests to:

Dr. Raymond F. Novak  
Institute of Chemical Toxicology  
Wayne State University  
2727 Second Avenue, Room 4000  
Detroit, MI 48201

Wayne State University is an equal opportunity/affirmative action employer.

TOXICOLOGIST

The Institute of Chemical Toxicology, Wayne State University, which occupies approximately 30,000 square feet of renovated laboratory space, invites applications/nominations for tenure-track faculty positions at the associate/full professor level. Preference will be given to candidates having a strong background in areas related to respiratory toxicology or immunotoxicology. Excellent applicants in other areas of toxicology will be given serious consideration. The successful applicants will be expected to develop vigorous, independent, extramurally-funded research programs. Excellent new laboratories, equipment, support facilities and generous start-up funds are available. Candidates should have a Ph.D., M.D./or D.V.M. and a strong track record in research. Send CV and a brief description of research interests to:

Dr. Raymond F. Novak, Director  
Institute of Chemical Toxicology  
Wayne State University  
2727 Second Avenue, Room 4000  
Detroit, MI 48201

Wayne State University is an equal opportunity/affirmative action employer.
The Aaron Diamond Foundation
POSTDOCTORAL RESEARCH
FELLOWSHIPS IN THE BIOMEDICAL
AND SOCIAL SCIENCES

The Aaron Diamond Foundation Postdoctoral Research Fellowships in the Biomedical and Social Sciences focus on AIDS or drug abuse research at New York City institutions.

The fellowship’s annual stipend begins at $36,000. Each fellowship is for two years, with an option for a third year. Applicants must have an M.D. or Ph.D. in the biomedical or social sciences. M.D.s should have received their degrees no earlier than 1984; Ph.D.s are eligible immediately after graduation. The fellowships are open to all U.S. citizens and qualified foreign applicants who have applied for U.S. citizenship. Women and members of minority groups are encouraged to apply. Applications are accepted through mentors at New York City institutions who have agreed to sponsor a particular applicant.

Information and applications: New York State Health Research Council, Office for the Aaron Diamond Foundation Postdoctoral Research Fellowships, 5 Penn Plaza, Room 308, New York, NY 10001; (212) 613-2525.

RESEARCH ASSOCIATE. Biochemical/molecular studies of hormones and receptors in fungi and comparison to mammalian endocrine systems. Ph.D. in cell biology or molecular biology. Knowledge in several areas is required: endocrinology, steroid receptors and regulation of gene expression, microbiology, fungal growth and morphogenesis, pathogen-host interactions, differentiation, cell cycle regulation and oncogene expression. Necessary laboratory skills: microbiological techniques, tissue culture, light and confocal microscopy, protein chemistry, receptor studies, generation of polyclonal and monoclonal antibodies, immunoblots and immunocytochemistry, molecular biology techniques including hybridization, cloning, transfection and expression. Salary: $30,000. Apply with CV and three references to D. Feldman, M.D., Department of Medicine/Endocrinology, Stanford University, Stanford, CA 94305. Stanford University is an affirmative action/equal opportunity employer.

SENIOR TOXICOLOGIST/DEPARTMENT HEAD. Position requires experience in study design, negotiations and the monitoring of contract house studies; and design and execution of toxicology programs in support of IND and NDA applications. The company is an EOE offering competitive salary and stock options commensurate with education and experience; comprehensive group health plan. If you have a Ph.D. in toxicology with at least five years industry experience please send CV and three references to Personnel Director, L. C. Shuman Pharmaceuticals, Inc., 887-G Industrial Road, San Carlos, CA 94070.

PREADCTORAL/POSTDOCTORAL TRAINING IN PULMONARY DISEASE. Positions are available at The Johns Hopkins Medical Institutions for multidisciplinary research training in lung diseases. Areas of interest include the immunology, physiology, cell biology, biochemistry and toxicology of the lung. Available stipends are limited to U.S. citizens or individuals with permanent immigrant visa status. For further information please contact J. T. Sylvester, M.D., Division of Pulmonary and Critical Care Medicine, 600 N Wolfe Street, Baltimore, MD 21205. Minority candidates are encouraged to apply.

POSITIONS DESIRED

Ph.D., 1991 (expected): Molecular biology, microbiology; Protein chemistry, protein purification, HPLC, raising polyclonal antibodies, immunoscreening of cDNA library, designing oligoprobes and oligoscreening of libraries, Western/Northern/Southern blots, DNA subcloning and DNA sequencing; Postdoc. in academia/industry; Fl 1-1001

Ph.D., 1987: Physiology/endocrinology of reproduction, growth and nutrition; Radioimmunoassays, in vitro bioassays, cell incubation, animal surgery, microscopy, photography, ultrasound, chromatography, micro-, mini- and mainframe computer experience; Avail. June 1991; Research/teaching; Salary negot. 5-1002

Ph.D., 1972: Respiratory physiology, respiratory therapy, hyperbaric physiology; 20 years government educational/clinical research management experience; Avail. July 1991; Research management in academia or industry; Salary negot.; South/Southwest; 1-1003

Ph.D., 1981: Physiology: Septis, ARDS in rats, shock models, radiation injury, inflammatory mediators, RIA, isolated perfused organs-lungs, liver, kidneys, vascular reactivity and permeability, small animal surgery, tracheal and vascular cannulation, cardiac output; Avail. July 1991; Research in industry; Salary negot. 1-1004

Ph.D., 1991 (expected): Immunology, cell biology, microbiology; Image analysis, computer literate, advanced statistical analysis, tissue culture, MAB production and purification, ELISA, Western blotting, immunoperoxidase, immunofluorescence microscopy, gel electrophoresis; Avail. July 1991; Postdoc. in academia/government/industry. 6-1005

Ph.D., 1986: Physiology, pharmacology; Surgery, microsurgery, tissue culture, radioligand analysis, HPLC, GLC, electrophysiology, radioisotope flux analysis, 5 years college teaching experience: anatomy, physiology, pharmacology, zoology, cell biology, general biology; Avail. August 1991; Industry/academia; Salary negot. 1-1006
PLACEMENT SERVICE

The Federation operates a Placement Service, year-round and at annual meetings. It matches candidates seeking postdoctoral training and permanent positions with recruiting employers from academia, government, industry and elsewhere. Most candidates are at the doctoral level and in disciplines represented by member societies; individuals holding degrees below the doctorate are not excluded. Candidates, employers and interviewers participating in Placement Service activities at annual meeting must register for attendance at meeting.

CANDIDATES

Registration is in effect for one year from receipt of completed registration materials and $10.00 registration fee. During that year, the candidate is entitled to:

• Inclusion of registration, if received by January 22, in annual Candidates, a bound collection of current registrations published in February to about 300 registered employers
• Publication of Position Desired advertisement, composed by candidate, in one issue of The FASEB Journal (resulting in referral of about 2000 registrations each year)
• Use of interviewing facilities at annual meeting, including review of posted position vacancy descriptions (about 900 posted per year), distribution of registration to each participating employer, and interview scheduling services (about 5400 interviews scheduled per year). Report in person to Placement Service at meeting to initiate this activity
• Availability of registration for review by employers visiting the FASEB campus and by FASEB staff members conducting searches on behalf of employers (about 1400 referrals per year)

EMPLOYERS

Registration is on a calendar year basis. Fee for 1991 is $600.00 for commercial organizations, $300.00 for academic and other nonprofit institutions, with a minimal additional fee for more than two interviewers at annual meeting to the limit of five per employer registration. During the year of registration, the employer is entitled to:

• Receipt of one copy of annual Candidates, distributed in February (containing several hundred candidate registrations)
• Inclusion of a maximum of 10 Position Vacancy Descriptions, if received by February 8, in annual Positions, published in March (distributed to several hundred candidates)
• Posting of a maximum of 10 Position Vacancy Descriptions in Placement Service area at annual meeting (descriptions must be prepared in prescribed format and size)
• Receipt of one copy of registration of each candidate attending annual meeting, one set per registered and numbered employer organization
• Use of interviewing facilities at annual meeting, including interview scheduling services (about 5400 interviews scheduled per year). Interviewers must be authorized by individual named on Employer Registration. A maximum of five interviewers may be authorized per registered employer. Two interviewers are included in registration fee; three additional interviewers may be authorized, with a fee of $40.00 each accompanying authorization.

Following services, of principal use to employers not registered and who are charged a modest fee, are also provided at no charge to registered employers:

• Identification, on request, of candidates who insert Position Desired advertisement in The FASEB Journal
• Identification of candidates found by search of active files, conducted by Placement Service staff based on description of desired qualifications as provided by employers

Employers not registering with Placement Service may purchase the posting of Position Vacancy Description(s) at annual meeting under a “No Interviews Granted” heading for a fee of $40.00 per description. Payment must accompany description(s), which must be prepared in prescribed format and size.

GENERAL

Advance registration through April 5, 1991 is encouraged; at-meeting registration is available.

For registration forms and instructions and other details, please write or call FASEB Placement Service, 9650 Rockville Pike, Bethesda, MD 20814 (301) 530-7020.

PLACEMENT SERVICE SCHEDULE — ANNUAL MEETING — 1991

Exhibit Hall C, Georgia World Congress Center - Atlanta, Georgia

REGISTRATION
Sunday, April 21 2:00 pm-8:00 pm
Monday, April 22 7:30 am-4:30 pm
Tuesday, April 23 8:00 am-4:30 pm
Wednesday, April 24 8:00 am-1:00 pm

INTERVIEW SCHEDULING
Monday-Wednesday, April 22-24 8:30 am-4:30 pm

INTERVIEWS
Monday, April 22 1:00 pm-4:30 pm
Tuesday-Wednesday, April 23-24 9:00 am-4:30 pm
Thursday, April 25 9:00 am-1:00 pm
Membership in the Federation of American Societies for Experimental Biology and in Its Constituent Societies

Membership in the Federation is limited to societies; there is no individual membership. Any society in the field of biological science may apply for membership, either corporate or affiliate, and may be admitted by a three-fourths majority vote of all members of the Federation Board. The societies listed below presently constitute the Federation.

Since requirements and procedures for election to membership in the member societies vary, the following information is provided:

Corporate Members

The American Physiological Society. Individuals who qualify for Regular and Corresponding membership should have a doctoral degree in physiology or related area and have published several papers in refereed journals. They should have a position other than as a trainee in physiological research, teaching, administration, or related area. Applicants considered for Associate and Associate Corresponding membership should have a doctoral degree in physiology or a related area and are engaged in research and/or in the teaching of physiology. Any student conducting physiological research leading to an advanced degree in physiology or in a related area may qualify as a Student member. Two Regular members must sponsor a candidate for membership. A Corresponding or Honorary member of the Society may substitute for one of the Regular members in sponsoring a candidate for Corresponding or Associate Corresponding membership. Council nominates candidates for Regular and Corresponding membership who stand for election by the vote of Regular members of the Society. Associate, Associate Corresponding, and Student membership applicants are accepted upon approval of the Executive Director of the Society. Other classes of membership include Honorary, Emeritus, and Sustaining Associate. Further information and application forms are printed in the August issue of THE PHYSIOLOGIST and are available from the APS Membership Services Department, 9650 Rockville Pike, Bethesda, MD 20814, USA.

American Society for Biochemistry and Molecular Biology. Investigators residing in the Americas who have demonstrated the ability to conduct meritorious research in biochemistry and molecular biology are eligible for Regular membership. Evidence of such qualification may be shown by publication of at least one paper in a refereed journal which primarily publishes reports of biochemistry and molecular biology. Nominations must be submitted by two Regular members of the Society and, if favorably recommended to the Council by the membership Committee, will be elected at any regular meeting of the Society. Individuals not yet fulfilling the requirements of Regular membership, but having an interest in biochemistry and molecular biology are eligible for Associate membership. Such individuals must be nominated by two Regular members of the Society and will become members immediately on nomination. Eminent biochemists residing in countries other than the Americas may be nominated for Honorary membership. Individuals not otherwise eligible for any type of membership, but who have made significant contributions through service to biochemistry or molecular biology are eligible for designation as a Distinguished Service Associate. Nomination forms and specific nomination criteria may be obtained from ASBMB Membership Secretary, 9650 Rockville Pike, Bethesda, MD 20814, USA.

American Society for Pharmacology and Experimental Therapeutics. Any qualified investigator who has conducted and published a meritorious original investigation in pharmacology and is a legal resident of the United States, its dependencies, Canada, or Mexico shall be eligible for Regular membership in the Society. Nominees for membership shall be proposed by two members of the Society who are not members of the Council or of the Membership Committee at the time of the initial nomination. Other classes of membership include Affiliate and Student/Fellow, which are for pharmacologists who are either residents of a country other than the USA, Canada or Mexico, are not now active in research, or who are advanced students or are fewer than 5 years past their doctoral degree. Nomination forms are printed in THE PHARMACOLOGIST and are available from MRS. KAY A. CROKER, Executive Officer, 9650 Rockville Pike, Bethesda, MD 20814, USA.

American Association of Pathologists. Successful candidates for membership in the AAP are independent investigators with solid scientific qualifications, commitment and continuing productivity in experimental pathology or related disciplines. Not all members are pathologists, but are investigators with a strong interest in the pathogenesis and diagnosis of disease. Candidates are nominated by at least two members of the Association for approval by the Council and a majority of members attending the annual AAP Business Meeting. Nominations for Trainee membership (residents or fellows) are accepted from AAP members who can certify the training status of the nominee. Additional information and application forms may be obtained from DR. FRANCES A. PITLICK, Executive Officer, 9650 Rockville Pike, Bethesda, MD 20814, USA.

American Institute of Nutrition. Any person who has conducted and published meritorious original investigations in some phase of nutrition and who is professionally active in the field of nutrition shall be eligible for Active membership. Persons rendering superior service to nutrition through teaching, administration, or technical service may also be deemed eligible. Nominees shall be sponsored by two members of the Institute. Nominations should be received by February 1, and those nominations approved by Council will be presented for election at the annual business meeting. Other classes of individual membership include Associate, Emeritus, and Student. Membership in the American Society for Clinical Nutrition, the Clinical Division of the AIN, is based on professional activities in the area of clinical nutrition. All nominees for ASCN membership must be members of AIN or be considered for election simultaneously. AIN/ASCN nomination forms are available from the AIN Secretariat, 9650 Rockville Pike, Bethesda, MD 20814, USA.

The American Association of Immunologists. Investigators qualified by virtue of a doctorate degree or equivalent experience and training who have conducted and published meritorious original investigations in immunology or related disciplines are eligible for membership. Candidates must be nominated by two members of the Association. The recommendations of a membership committee are submitted for election by the membership at the annual spring meeting. For application forms write to DR. JOSEPH F. SAUNDERS, Executive Director, 9650 Rockville Pike, Bethesda, MD 20814, USA.

Affiliate Member

The American Society for Cell Biology. To be considered for Regular membership, an applicant must hold the Ph.D. or equivalent degree or have equivalent experience, and be sponsored by two Regular or Emeritus members. Other classes of membership are Emeritus and Student. Further information and forms may be obtained from MS DOROTHEA C. WILSON, Executive Officer, 9650 Rockville Pike, Bethesda, MD 20814, USA.

Revised August 1990
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AIDS—Ten Years Later

AIDS—Ten Years Later
HIV Epidemiology: Past, Present and Future
Immunopathogenesis of HIV Infection
Regulatory Proteins of HIV-1
Molecular Biology of HIV-1
HIV-1 and the Nervous System
Epitopes of HIV for the Development of Artificial Vaccines
Prospects of Vaccine Pathogenesis of Murine Acquired Immunodeficiency Syndrome (MAIDS)
Principles of Anti-Retroviral Therapy
Neutralizing Antibodies
Variation of HIV in Relation to the Clinical Situation
Mother-to-Child Transmission of HIV and Human Retroviruses
Translation of Science into Policy

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S. Broder
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Watch for it in The FASEB Journal

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Research Information Systems, Inc., the developer of Reference Update, Reference Manager, and Grant Accountant, in cooperation with the Management and Staff of FASEB, is again making available a complimentary Reference Update Meeting Edition for the 1991 Annual Meeting.

Available since 1989, the Reference Update Meeting Edition is a computerized version of the entire meeting program for both IBM PC and compatible and Apple Macintosh computers. It contains all meeting events (oral and poster) on diskette, along with a specially prepared version of the Reference Update search software. The user simply constructs a search strategy consisting of words of interest, authors, and sessions; then with the press of a key, all events of potential interest are displayed on the computer screen. Select those events that you would like to attend, and a complete itinerary is printed, including potential scheduling conflicts.

ALL PRE-REGISTRANTS FOR THE 1991 MEETING WILL RECEIVE THE REFERENCE UPDATE MEETING EDITION ALONG WITH THEIR PROGRAM; NO FURTHER ACTION IS REQUIRED.

If you did not register for the meeting, you may obtain your copy at no charge by writing to:

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Please be sure to specify the appropriate media type (i.e., IBM 5-1/4", IBM 3-1/2" or Macintosh).

PLEASE DO NOT REQUEST THE MEETING EDITION IF YOU HAVE PRE-REGISTERED FOR THE MEETING!

If you do not have a computer, or would like assistance in preparing your itinerary, please visit the Research Information Systems, Inc. Booth #1101, 1102 at the meeting.

Food Fight Erupts in Neighborhood Supermarket

Produce section after recent food fight.

Carrots, broccoli, tomatoes, even brussels sprouts were flying into grocery carts as The Great American Food Fight Against Cancer broke out in area supermarkets.

Consumers are reacting to studies which show that foods high in vitamins A and C, high in fiber and low in fat, may help reduce cancer risk.

“My husband is getting whole grain toast tomorrow morning,” one shopper declared. A mother was seen throwing carrots into her bag. “Snacks for the kids,” she said.

Grocers are, of course, delighted. “This food fight is pretty exciting,” said one produce manager, “and there’s nothing for me to clean up!”

The American Cancer Society, sponsor of the Food Fight, has more information. Call 1-800-ACS-2345.

And, be on the lookout for Community Crusade volunteers armed with shopping lists.
Focus: Molecular Aspects of Experimental Biology

Speakers: Frederic M. Richards
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William A. Catterall
John C. Cambier
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<th>CAT. NO.</th>
<th>DIAMETER</th>
<th>RELEASE TIME</th>
<th>BLOOD LEVELS</th>
<th>PRICE/100 PELLETS</th>
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</thead>
<tbody>
<tr>
<td>17β-Estradiol</td>
<td>0.72</td>
<td>SE-121</td>
<td>3 mm</td>
<td>60-day</td>
<td>200–400 pg/ml</td>
<td>$774.00</td>
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<td>17β-Estradiol</td>
<td>1.7</td>
<td>SE-121</td>
<td>3 mm</td>
<td>60-day</td>
<td>&gt;900 pg/ml</td>
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