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: meetings, 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 it to Calendar Editor, The FASEB Journal, 9630 Rockville Pike, Bethesda, MD 20814, USA.


19-23 March 1991. International Meeting of the Electrophoresis Societies, Washington, DC, USA. (J. Cunningham, Barr Enterprises, P.O. Box 279, Wallingford, MD 21793, USA)


21-25 April 1991. 73th Annual Meeting of the Federation of American Societies for Experimental Biology, Atlanta, Georgia, USA. (FASEB Oec of Scientific Mts., 9650 Rockville Pike, Bethesda, MD 20814, USA)

13-15 May 1991. 5th International Symposium on Preparative Chromatography, Arlington, Virginia, USA. (Barr Enterprises, P.O. Box 279, Wallingford, MD 21793, USA)


9-14 June 1991. FASEB Summer Research Conferences: Ubiquitin, Saxtons River, Vermont, USA. (Marlyn Marsh, FASEB, 9650 Rockville Pike, Bethesda, MD 20814, USA)

16-21 June 1991. FASEB Summer Research Conferences: Neuroimmunology, Saxtons River, Vermont, USA. (Marlyn Marsh, FASEB, 9650 Rockville Pike, Bethesda, MD 20814, USA)


30 June-5 July 1991. FASEB Summer Research Conferences: Neurotransmitters and Modulators in Opioid Analgesia, Copper Mountain, Colorado, USA. (Marlyn Marsh, FASEB, 9650 Rockville Pike, Bethesda, MD 20814, USA)

7-12 July 1991. FASEB Summer Research Conferences: Protein Kinases, Copper Mountain, Colorado, USA. (Marlyn Marsh, FASEB, 9650 Rockville Pike, Bethesda, MD 20814, USA)


14-19 July 1991. FASEB Summer Research Conferences: Smooth Muscle, Copper Mountain, Colorado, USA. (Marlyn Marsh, FASEB, 9650 Rockville Pike, Bethesda, MD 20814, USA)


21-26 July 1991. FASEB Summer Research Conferences: Biology and Chemistry of Vision, Copper Mountain, Colorado, USA. (Marlyn Marsh, FASEB, 9650 Rockville Pike, Bethesda, MD 20814, USA)

28 July-2 August 1991. FASEB Summer Research Conferences: Genetic Recombination and Genome Rearrangements, Saxtons River, Vermont, USA. (Marlyn Marsh, FASEB, 9650 Rockville Pike, Bethesda, MD 20814, USA)

28 July-2 August 1991. FASEB Summer Research Conferences: Endothelium and Cardiovascular Function, Copper Mountain, Colorado, USA. (Marlyn Marsh, FASEB, 9650 Rockville Pike, Bethesda, MD 20814, USA)

4-9 August 1991. FASEB Summer Research Conferences: Low Molecular Weight GTP Binding Proteins, Saxtons River, Vermont, USA. (Marlyn Marsh, FASEB, 9650 Rockville Pike, Bethesda, MD 20814, USA)

4-9 August 1991. FASEB Summer Research Conferences: Gastrointestinal Tract IV: Development and Repair—Cellular and Molecular Aspects, Copper Mountain, Colorado, USA. (Marlyn Marsh, FASEB, 9650 Rockville Pike, Bethesda, MD 20814, USA)

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11-16 August 1991. FASEB Summer Research Conferences: Cytokines and Lipid Mediators as Regulators of Cell Function, Copper Mountain, Colorado, USA. (Marlyn Marsh, FASEB, 9650 Rockville Pike, Bethesda, MD 20814, USA)


23-25 September 1991. National Symposium on Planar Chromatography: Modern Thin-Layer Chromatography, Somersett, New Jersey, USA. (J. Cunningham, Barr Enterprises, P.O. Box 279, Wallingford, MD 21793, USA)

23-26 September 1991. Biotechnologies and Environment for a Sustainable Development, Montreal, Quebec, Canada. (Diane Chalifour, Universite de Montreal, C.P. 6128, succursale A, Montreal (Quebec) H3C 3J7, Canada)


3-10 April 1992. 76th Annual Meeting of the Federation of American Societies for Experimental Biology, Anaheim, California, USA. (FASEB Oec of Scientific Mts., 9650 Rockville Pike, Bethesda, MD 20814, USA)

Courses & Workshops

3-4 December 1990. Modern Methods in Purification & Analysis of Biopolymers for Biotechnology & Genetics Analysis: Liquid Chromatography & Capillary Electrophoresis, Iselin, New Jersey, USA. (Barr Enterprises, P.O. Box 279, Wallingford, MD 21793, USA)

3-4 December 1990. NIH Animal Welfare Education Workshop: Problems of Small vs. Large Institutions, Kingston, RI 02801, USA. (Mrs. R. Sonnember, NIH, Bldg. 35, Rm. 5315, 9000 Rockville Pike, Bethesda, MD 20892, USA)


3-7 June 1991. Intensive Course in Pediatric Nutrition, Iowa City, Iowa, USA. (S. J. Forman, Dept. of Pediatrics, Coll. of Med., U. of Iowa, Iowa City, IA 52242, USA)


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The proposal should be accompanied by a list of 8-10 literature citations, including the title of the article, that would be included in the review. These citations should be drawn from the recent relevant work of the author(s) and of others.

Such proposals are circulated to a group of expert editors and referees for an evaluation, and a decision to accept is based on their recommendations. Reviews are published some 4-5 months from receipt, and proposals for cover illustrations are welcomed.
### Catalog of Myo-Insitol 2-3H

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<tr>
<th>Catalog</th>
<th>Compound</th>
<th>QTY</th>
<th>NEN</th>
<th>AMERSHAM</th>
<th>ARC</th>
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</thead>
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<tr>
<td>ARC-290</td>
<td>Arachidonic Acid 1-14C</td>
<td>50μCi</td>
<td>695</td>
<td>700</td>
<td>399</td>
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<tr>
<td>ART-196</td>
<td>Arachidonic Acid 3H</td>
<td>250μCi</td>
<td>415</td>
<td>460</td>
<td>299</td>
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<tr>
<td>ARC-111</td>
<td>Deoxy-D-Glucose 1-14C</td>
<td>1 mCi</td>
<td>1200</td>
<td>1290</td>
<td>799</td>
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<tr>
<td>ART-103</td>
<td>Deoxy-D-Glucose 1,2-1H</td>
<td>1 mCi</td>
<td>325</td>
<td>---</td>
<td>199</td>
</tr>
<tr>
<td>ART-200</td>
<td>Deoxy-D-Glucose 6-3H</td>
<td>1 mCi</td>
<td>---</td>
<td>---</td>
<td>259</td>
</tr>
<tr>
<td>ART-110</td>
<td>Glucosamine [6-3H]</td>
<td>5 mCi</td>
<td>735</td>
<td>---</td>
<td>499</td>
</tr>
<tr>
<td>ART-116</td>
<td>INOSITOL, myo 2-3H</td>
<td>1 mCi</td>
<td>550</td>
<td>595</td>
<td>349</td>
</tr>
<tr>
<td>ART-116A</td>
<td>[90% ETOH or Sterile Water]</td>
<td>5 mCi</td>
<td>1395</td>
<td>1600</td>
<td>899</td>
</tr>
<tr>
<td>ART-232</td>
<td>Inositol, myo 14C(U)</td>
<td>5 μCi</td>
<td>385</td>
<td>315</td>
<td>199</td>
</tr>
<tr>
<td>ARC-126</td>
<td>Iodoantipyrine (methyl 14C)</td>
<td>1 mCi</td>
<td>1375</td>
<td>1270</td>
<td>899</td>
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<tr>
<td>ART-181</td>
<td>Iodoantipyrine (methyl 3H)</td>
<td>1 mCi</td>
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<tr>
<td>ART-120</td>
<td>Mannose 2-3H</td>
<td>5 mCi</td>
<td>525</td>
<td>---</td>
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<tr>
<td>ARC-132</td>
<td>3-O Methyl 14C-D-Glucose</td>
<td>250μCi</td>
<td>800</td>
<td>815</td>
<td>499</td>
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<tr>
<td>ARC-452</td>
<td>Mevalonolactone, RS [2-14C]</td>
<td>250μCi</td>
<td>915</td>
<td>1040</td>
<td>599</td>
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<tr>
<td>ART-315</td>
<td>Mevalonolactone, RS [5-3H]</td>
<td>1 mCi</td>
<td>460</td>
<td>745</td>
<td>299</td>
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<tr>
<td>ART-297</td>
<td>Stearic Acid [9,10-3H]</td>
<td>5 mCi</td>
<td>---</td>
<td>---</td>
<td>249</td>
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Corporate Members

The American Physiological Society. Any resident of the Americas who conducts and has published meritorious original research in physiology shall be eligible for proposal for Regular membership. Residents of The Americas who are engaged in research in physiology or related fields and/or teaching physiology shall be eligible for proposal for Associate membership. Residents outside of The Americas who conduct and have published meritorious original research in physiology shall be eligible for proposal for Corresponding membership. Individuals must apply in writing on forms provided by the Society. Two Regular members must sponsor a candidate for membership. Emeritus members also can be sponsors of new members. A Corresponding or Honorary member of the Society may substitute for a Regular member in sponsoring a candidate for Corresponding membership. Council nominates candidates who stand for election by the vote of Regular members at business meetings of the Society. Other classes of membership include Honorary, Emeritus, Associate, Associate Corresponding, Student, and Sustaining Associate. Further information and nomination forms are printed in The Physiologist and are available from the APS Membership Services Department, 9650 Rockville Pike, Bethesda, MD 20814.

American Society for Biochemistry and Molecular Biology. Investigators residing in the Americas who have demonstrated the ability to conduct meritorious original research in biochemistry or molecular biology are eligible for Regular membership. Such individuals must be nominated 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 for Regular membership may be nominated by two Regular members for Associate membership. Nominees for Associate membership 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.

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.

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.

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.

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.

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.

Revised August 1989
Employment Opportunities

POSITIONS AVAILABLE — Classified advertisement: $25.00 per line (70 characters), $200.00 (8 line) minimum. Display advertisement: $600.00 for ¼ page, 3½ inches x 4¼ inches; $900.00 for ½ page, 3½ inches x 9½ inches (vertical) or 7½ inches x 4 inches (horizontal); $1200.00 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 or purchase order 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: $10.00 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 application 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 $30.00 for identification of up to 10 advertisers, plus $3.00 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 are invited to request a search of all active candidate files. Telephone a description of the desired qualifications; results of search will be discussed telephonically with requesting official, and applications from candidates declared suitable will be forwarded.

Employers not currently registered with Placement Service for annual meeting participation are charged a minimum fee of $30.00 for up to 10 applications, plus $3.00 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 annual meetings, please refer to the January or February issue or contact the Placement Service.

Address all correspondence to FASEB Placement Service, 9650 Rockville Pike, Bethesda, MD 20814. (301) 530-7020

RATE CHANGE, POSITIONS AVAILABLE
Effective January 1, 1991 (per issue)

Classified advertisement
$ 25.00 per line (70 characters), $250.00 (10 line) minimum

Display advertisement
$ 700.00 for ¼ page, 3½ inches x 4¼ inches
$1000.00 for ½ page, 3½ inches x 9½ inches (vertical) or 7¼ inches x 4 inches (horizontal)
$1400.00 for full page, 7¼ inches x 9½ inches
(for display ads, add 5% if mechanical not submitted)

ASSISTANT/ASSOCIATE PROFESSOR. The Department of Pathology, University of California, San Diego (UCSD), invites applications for an Assistant/Associate Professor of Pathology (tenure-track) who will be an active member of the Molecular Pathology Ph.D. Program. Candidates must show demonstrated research productivity and substantial ability and interest in teaching molecular pathology at the graduate level. Opportunities are available for collaborative studies with clinical colleagues. A M.D./Ph.D., Ph.D. or M.D. is required. Salary and level of appointment will be commensurate with the qualifications of the candidate. CV and five names of referees should be sent by November 23, 1990 to University of California, San Diego, Colin M. Bloom, M.D., Director, Molecular Pathology Ph.D. Graduate Program, Department of Pathology, 9500 Gilman Drive, La Jolla, CA 92039-0612. AA/EOE.

FACULTY. Indiana University School of Medicine is accepting applications for two tenure-track faculty positions, one in biochemistry and one in microanatomy, at the South Bend Center for Medical Education on the campus of the University of Notre Dame, starting July, 1991. Each appointee will be expected to develop an active, independent research program in their area of interest, and also organize and teach a course in medical biochemistry or medical histology/embryology to 16 Indiana University freshman medical students. Rank and salary will be commensurate with experience. Applicants should send a CV, reprints of recent publications, statements of research and teaching goals and the names of three references by December 15, 1990 to Dr. Thomas Troeger, Director, South Bend Center for Medical Education, Haggard Hall, University of Notre Dame, Notre Dame, IN 46556 (219) 239-5574. An affirmative action/equal opportunity employer, M/F.

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FACULTY, NUCLEIC ACID ENZYMEOLOGY. The Department of Biochemistry at the Albert Einstein College of Medicine is seeking a tenure-track Assistant Professor interested in the enzymology of nucleic acid metabolism. Structure or mechanism of enzymes of nucleic acid replication, transcription, degradation, covalent modification or processing are of interest. Related areas are also of interest. Applicants should send a current CV, the names of at least three references, a summary of ongoing research interests and a brief proposal of future research plans. Submit applications to Dr. Julius Marmur, Department of Biochemistry, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1300 Morris Park Avenue, Bronx, NY 10461. Applications will be reviewed beginning November 1, 1990. The Albert Einstein College of Medicine of Yeshiva University is an equal opportunity/affirmative action employer.

ASSISTANT PROFESSOR. Department of Biochemistry, University of Nebraska-Lincoln. Twelve-month, tenure-leading, 85% research and 15% teaching. Research interests and expertise must be in mammalian biochemistry. Requires Ph.D. in biochemistry or closely related field, post-doctoral experience and demonstrated potential to establish an independent research program. Send CV, outline of future research plans, copies of up to three representative publications and three letters of recommendation, postmarked by November 19, to Dr. John Markwell, Department of Biochemistry, University of Nebraska-Lincoln, Lincoln, NE 68583-0718 (402) 472-2924/2392, FAX (402) 472-7842. Affirmative action/equal opportunity employer.

POSTDOCTORAL/RESEARCH TRAINING FELLOWSHIP available for an individual interested in studying the control of retroviral mediated damage of the central nervous system. Successful applicant will join a multidisciplinary team studying human and murine retroviral infections. Training available in all aspects of neuroscience including pathology, immunology, virology and molecular biology. Salary depends on experience. Eligibility: U.S. citizens or permanent residents, M.D. or Ph.D. or equivalent. Send CV, description of research interests and one letter of reference to Clayton A. Wiley, Department of Pathology (Neuropathology), UCSD, La Jolla, CA 92039-0612. EOAAE.

THE UNIVERSITY OF TEXAS
SOUTHWESTERN MEDICAL CENTER
AT DALLAS

FACULTY POSITIONS IN STRUCTURAL BIOLOGY

Tenure-track faculty positions at the level of assistant or associate professor are open in the Department of Biochemistry at the University of Texas Southwestern Medical Center at Dallas. Applicants must have a relevant Ph.D. or M.D. degree and postdoctoral training and must show evidence of a firm commitment to a career in independent research. We are particularly interested in applicants who plan to apply modern experimental or computational techniques to fundamental problems in structural biology. Send CV, list of three referees and a brief description of proposed research to:

Johann Deisenhofer
Howard Hughes Medical Institute Laboratories
University of Texas Southwestern Medical Center at Dallas
5323 Harry Hines Boulevard
Dallas, TX 75235-5050

An equal opportunity/affirmative action employer.
POSTDOCTORAL RESEARCH FELLOWSHIP. Available immediately. Research project concerning the involvement of arachidonate products in human disease. Candidates should have a Ph.D. or M.D. with a primary interest in lipoxygenase and/or cyclooxygenase products including their measurements, metabolism and functions. A background in pharmacology, lipid chemistry or biochemistry is required. Experience in HPLC technology preferred. Please send CV and three reference letters to Dr. Tony E. Hugh, Immunology Department (IMM 18), Research Institute of Scripps Clinic, 10666 N Torrey Pines Road, La Jolla, CA 92037.

POSITIONS DESIRED

Ph.D., 1990 (expected); Physiology, cell biology; Hemodynamics and pulmonary microcirculation, isolated lung and heart preparations, PAGE, human performance and stress testing; Avail. September 1990; Research/teaching in academia/industry; Salary negot. 1-0511

Ph.D., 1979; Biochemistry, cell biology, molecular biology; Retinoids and biological response modifiers in differentiation and proliferation, myeloid, T & B cells, Western, Northern blots, synthesis of and antibodies to retinoids, pool analysis, toxicological (PAH) interactions, membrane enzymes; Avail. December 1990; Research/teaching/academia/industry. 2-0530

Ph.D., 1976; Neurochemistry, neurobiology; Phosphoinositide metabolism, gas chromatography, GC-mass spectrometry, thin layer chromatography, animal surgery, stereotactic procedures, antisera production, SDS-polyacrylamide gel electrophoresis, gradient centrifugation; Avail. August 1990; Research; Western or northern states; Salary negot. 2-0788

Ph.D., 1981; Biochemistry, molecular biology; Genetic engineering, including cloning, mutagenesis, expression in E. coli and yeast, molecular diagnostic assays using PCR technology; Permanent position outside academia; Avail. December 1990; Salary negot. 2-0835

Ph.D., 1991 (expected); Biochemistry, molecular toxicology; Isolation and culture of hepatocytes and lymphocytes, microsome preparation from cells and tissue, agarose and SDS-PAGE, immuno- and Northern blotting, protein purification, enzyme assays, instrumentation including HPLC, spectrophotometer, LS spectrometry; Avail. July 1991; Salary negot. 2-0839

Ph.D., 1986; Cellular immunology, cell biology; In vivo (mice) studies, skin and BM transplantation, in vitro bioassays, tissue culture, lymphocyte cloning, FACS, cell cycle intracellular Ca(FACS) analysis, Northern/Western blotting; Avail. March 1991; Academia/industry; Salary negot. 6-0854

Ph.D., 1984; Industrial microbiology, fermentation, molecular biology; Production, purification of bacterial proteins, native and recombinant, high density cultures of E. coli, anaerobic, thermophilic microorganisms, kinetic studies; Avail. November 1990; Research/teaching; Michigan; Salary negot. 2-0992

Ph.D., 1990; Enzymology, biophysical chemistry, physical organic chemistry; Bacterial cell fermentation, enzyme purification, gel electrophoresis, enzyme kinetics, NMR/EPR enzyme systems; 7 years industrial experience; Avail. October 1990; Industry, research/postdoc.; Salary negot. 2-099B
RadTape is a phosphorescent adhesive labeling system that provides instant custom labels. It permanently labels membranes, dried gels and their corresponding autoradios and produces sharp, handwritten, or typed images that are clear and permanent for record keeping. Research Products Int'l. Circle 64

Long R³ IGF-I and des(1-3)IGF-I, potent analog of insulin-like growth factor-I are for use in serum-free or reduced serum cell culture and as growth factor research reagents. Des(1-3)IGF-I lacks the N-terminal tripeptide of IGF-I, and long R³IGF-I has a substitution at residue 3 (an Arg for a Glu) as well as a 13-residue N-terminal extension peptide. Des(1-3)IGF-I exhibits diminished binding to some classes of IGF binding proteins, whereas long R³IGF-I exhibits diminished binding to all classes of IGF binding proteins. This results in both of these analog being markedly more potent than IGF-I in cell culture and in stimulating growth in vivo. GroPep Circle 58

Transfectam is a synthetic cationic lipid that coats plasmodic DNA which, in turn, promotes binding to cell membrane and incites endocytosis. The transfection process is highly specific and very stable. The efficiency of the transfection process, compared to calcium phosphate or liposome techniques, has been shown to be up to 100 times better (CHO, 3T3).

The average duration for the transfection reaction is 30 min. Transfectam forms unilamellar vesicles of 800-1000 A, which are unstable in ionic media and that will aggregate with plasmids due to Transfectam’s affinity for DNA. The lipid has been used successfully to transfect HepG2, HeLa, CHO, S49, 3T3, MRC 5, COS, as well as other cell lines. IBF Biotechnics Circle 86

A data management system for use on all protein and peptide sequencers has interactive graphics that allows you to view data on screen and use the mouse to quickly expand portions of the chromatograms, add or delete timed events, display peak dimensions, change the integration method, and test new integrations parameters in seconds. With multichannel input you can independently acquire and manipulate information from two protein sequencers. Porton Instruments Circle 68

The model C312 nonrefrigerated benchtop centrifuge was specifically designed as a general-purpose centrifuge for laboratories with moderate sample handling needs. The T4 horizontal rotor is capable of achieving up to 3600 RPM generating 2550 x g. The versatile rotor, bucket, insert system allows centrifugation of tubes as small as 0.5 ml or bottles as large as 250 ml. For higher speed and RCF, fixed angle rotors generate up to 6300 x g.

Jouan, Inc. Circle 90

DynaGard filter tips have a unique shape designed for aspiration or injection of fluids into or out of vessels. The low hold-up volume allows maximum sample recovery; microporous hollow fibers allow high flow rate and high throughput. Allows injection or aspiration of fluids from vessels without a needle. Midwest Scientific Circle 59

The PhysioTel PA series implantable transmitters telemeter blood pressure, heart rate, and physical activity chronically from rats, dogs, primates, and similar-sized animals while they move freely about their cage. These patent-pending devices eliminate the infections, stress, and maintenance associated with tethers and vascular access ports and provide accurate high-fidelity measurements. Data Sciences Circle 56
The FisherBiotech Ultraviolet Crosslinker binds nucleic acid samples to hybridization membranes in 15 to 30 sec.

It binds samples covalently following Southern, Northern, slot, and dot blotting, or colony and plaque lifts. (Originally, this operation required baking for 2 hours at 80°C.) A significant advance in UV crosslinking equipment, the unit provides four modes of operation.

Fisher Scientific Circle 65

A combined electrophoresis and blotting apparatus runs two electrophoresis gels and performs subsequent electrophoresis gels and, by changing a single insert, performs subsequent electrotransfers. Supplied with two sets of glass plates and 1.5 mm combs and spacers, DuoLink modules accept 10 cm x 10 cm glass gel plates or cassettes.

DuoLink is compatible with all vertical mini-format techniques. Used with the HydroLink™ electrotransfer kit, this system can simultaneously transfer two gels in 1 hour or less. Cost is priced at $600.00.

AT Biochem Circle 89

The TE 77 Semiphor™ is a semi-dry transfer unit with the largest electrode surface area of any commercial unit on the market. Electrodes are 21 x 26 cm, large enough to transfer gels run on any commercial electrophoresis unit currently sold. The screen electrodes leave no deposits on membranes and last indefinitely. The TE 77 will transfer several large gels at a time.

Hoefer Scientific Circle 62

The WRIST-ACTION® Shaker, developed by Burrell Corporation more than 40 years ago, saves hours in a variety of laboratory applications. The shaker, perfectly suited to life science laboratories, duplicates the swirling action of hand mixing with even motions, at all speeds, and for as long as necessary. It is rugged, with the only regular maintenance being periodic, in-lab lubrication that can be quickly and easily performed by laboratory personnel.

Most parts are interchangeable on older Shakers. Burrell’s reconditioning program can completely update older models. The exclusive Burrell Build-Up System® allows every Shaker to adapt to individual lab requirements—both current and future.

Burrell Corporation Circle 78

The Binding Site introduces affinity purified antibodies to Human IgGAM, IgG(H + L), IgA, IgM and IgG1, IgG2, IgG3 and IgG4. Anti-mouse, rabbit, rat and sheep IgG(H + L) are also available. FITC, PEROX, ALKPHOS AND BIOTIN conjugates are offered in 1mg and 0.5mg sizes. Affinity purified anti-Mouse IgG(H + L) has been further absorbed against human tissue components to ensure minimal background staining when using mouse monoclonal primary antibodies on human tissue.

The Binding Site Inc. Circle 87

A 2-D map of the human plasma proteins measures 22 in. x 17 in., with the locations of more than 1000 plasma proteins. It was generated using the ISO-DALT™ electrophoresis system, the Protein Index databases, and the Kepler™ workstation software for computer analysis of 2-D gels.

Hoefer Scientific Circle 66

Literature

A complete line of Ultrafree filter units for concentration and desalting steps before or after column chromatography, electrophoresis, and other analytical techniques is described in a brochure from Millipore. Ultrafree devices can be used to remove cells, virus, and particulates as well as for the purification and recovery of proteins, enzymes, amino acids, DNA, or drugs. They are available with a variety of membrane types, including the PL series of low-protein-binding, regenerated cellulose ultrafiltration membranes.

Millipore Circle 57
A membrane selection guide is an excellent reference piece for anyone who works with membrane filter discs or sheets. The guide folds out to a large, color-coded wall-chart with more than 75 different membrane types and applications.

**Millipore**

A 1990-91 catalog for laboratory reagents and chromatography products has specifications and prices for more than 7000 product listings, including laboratory reagents, high-purity acids, and solvents for key chromatographic applications.

**J. T. Baker**

A 1990-91 catalog featuring a full range of ANOTOP® and ANODISC™ filters includes applications information and technical specifications for ANOTOP disposable syringe filters for a broad range of HPLC sample preparations. Disposable syringe filters provide a prefiter to facilitate filtration of difficult solutions.

**Anotec Separations**

Cedarlane's monoclonal antibodies and anti-sera 16-page catalog classifies, describes, and specifies usage for an extensive selection of mouse immunology reagents and human immunology and tissue typing reagents.

**Accurate Chemical and Scientific**

A 4-page brochure highlights high-purity chemicals and biochemicals for use in biotechnology and molecular biology research and production. AMRESCO

**Jouan, Inc.**

Jouan's brochure describes their centrifugal vacuum concentrator/evaporator systems designed to rapidly concentrate biological and other samples in preparation for further analysis. The technique results in virtually 100% sample recovery with no contamination.

Cell technology 46-page color catalog features products for cell nutrition (serums, bovine transferrin), monitoring/separation (ProAnaMabs, ProCell), and immunochemicals (antisera, enzymes).

**HyClone**

EndNote Plus, an enhanced version of EndNote for the Macintosh, includes a new feature that allows instant searches even in files with thousands of references. Users can limit searching to one or more fields and conduct one-step complex searches using Boolean logic.

**Niles & Associates**

Automated and manual systems for capillary electrophoresis (CE) are described in a 12-page, color brochure from Isco. Models 3140 and 3850 offer multiple sample injection modes and reversible polarity 30 kV power to support a full range of CE analysis modes, including conventional free-solution CE separation of peptides, proteins, and polynucleotides as well as surface-modified capillaries and MECC and electrofocusing techniques.

**Isco, Inc.**
Books


