<table>
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<tr>
<th>Sponsor</th>
<th>Meeting/themes</th>
<th>Location</th>
<th>For additional information</th>
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<tr>
<td>ASBMB</td>
<td>International Union of Biochemistry</td>
<td>Jerusalem, Israel</td>
<td>ASBMB Office 9650 Rockville Pike Bethesda, MD 20814 Phone: 301-530-7145 fax: 301-571-1824</td>
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<tr>
<td></td>
<td>August 4-9, 1991</td>
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<tr>
<td></td>
<td>ASBMB Fall Conference: Topic: Biological Significance of Lipid Modification of Proteins</td>
<td>Keystone, Colorado</td>
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<td></td>
<td>October 11-14, 1991</td>
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<td></td>
<td>ASBMB/Biophysical Society Meeting</td>
<td>Houston, Texas</td>
<td>FASEB Office of Scientific Meetings 9650 Rockville Pike Bethesda, MD 20814 Phone: 301-530-7010 fax: 301-530-7014</td>
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<td></td>
<td>February 9-13, 1992</td>
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<td>AAP</td>
<td>COURSE: Concepts in Molecular Biology</td>
<td>Bethesda, Maryland</td>
<td>AAP Office 9650 Rockville Pike Bethesda, MD 20814 Phone: 301-530-7130 fax: 301-571-1879</td>
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<td>October 31-November 3, 1991</td>
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<tr>
<td>AAI</td>
<td>AAI Annual Meeting</td>
<td>Denver, Colorado</td>
<td>AAI Office 9650 Rockville Pike Bethesda, MD 20814 Phone: 301-530-7178 fax: 301-571-1816</td>
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<td>May 21-25, 1993</td>
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15-19 July 1991. The Sixth Gums and Stabilisers for the Food Industry Conference, Wales, United Kingdom. (Conf. Secretariat, Faculty of Science and Innovation, The North East Wales Inst., DEESIDE, Clwyd, CH5 4BR, Wales, UK)


18-21 July 1991. 41st Annual Symposium on the Biology of Skin - Hair and Hair Diseases, Snowmass Village, Colorado, USA. (Dr. K. D. Wuepper, P. O. Box 1592, Lake Oswego, OR 97035, USA)


22-24 July 1991. U.S.-Japan Conference on Molecular and Comparative Nutrition, Bethesda, Maryland, USA. (Dr. J.A. Olson, Biochem. & Biophysics, Iowa State U., Ames, IA 50011, USA)


23-26 July 1991. International Symposium on Recent Advance in Chemistry and Molecular Biology of Cancer Research (CMBC), Beijing, China. (Prof. Zhang Qingying, CMBC Secretary-General, Center for Chemistry and Bioengineering of Cancer, Beijing Polytechnic U., Beijing 100022, China)

24-26 July 1991. NYAS Conference on the Neurobiology of Drug and Alcohol Addiction, Spokane, Washington, USA. (Marketing Dept., NYAS, 2 E. 63rd St., New York, NY 10021, USA)

26-28 July 1991. First International Conference on the Molecular Biology of Bacillus thuringiensis, San Francisco, California, USA. (A.I. Aronov, Dept. of Biological Sciences, Purdue U., W. Lafayette, IN 47907, USA)


28 July–2 August 1991. FASEB Summer Research Conferences: Endothelium and Cardiovascular Function, Copper Mountain, Colorado, USA. (Geri Goodenough, FASEB, 9650 Rockville Pk., Bethesda, MD 20814, USA)

30 July–2 August 1991. Symposium on Advances in Regulation of Carbohydrate Metabolism, Tel Aviv, Israel. (Dr. E. Sha, P.O. Box 50006, Tel Aviv 61650, Israel)


1-5 August 1991. Sixth International Interdisciplinary Conference on Hypertension in Blacks, Salvador, Bahia, Brazil. (Intl. Society on Hypertension in Blacks, 69 Butler St., S.E., Atlanta, GA 30303, USA)

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

4-9 August 1991. Fifth International Congress of The International Society of Developmental and Comparative Immunologists, Portland, Oregon, USA. (Dr. Laurens N. Ruben, Dept. of Biology, Reed Coll. of Medicine, Portland, OR 97022-8199, USA)

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

4-9 August 1991. 15th International Congress of Biochemistry, Jerusalem, Israel. (ASBMB Office, 9650 Rockville Pike, Bethesda, MD 20814, USA)

4-11 August 1991. 5th International Conference on Inorganic Biochemistry, Oxford, United Kingdom. (Prof. C.D. Garner, Dept. of Chemistry, U. of Manchester, Manchester M13 9PL, UK)

5-9 August 1991. FEMS 2nd International Congress on Amino Acids and Analogues: Chemistry, Biology, Medicine, Vienna, Austria. (Prof. G. Lubec, U. of Vienna, Dept. of Pathology, Whingerer Gurtel 18, A 1090 Vienna, Austria)


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

11-16 August 1991. European Developmental Biology Congress EDBC-91, Jerusalem, Israel. (EDBC-91, P.O. Box 50006, Tel Aviv, Israel 61500)


25-30 August 1991. 3rd International Congress of Comparative Physiology and Biochemistry, Tokyo, Japan. (Zoolological Inst., Faculty of Science, U. of Tokyo, Hongo, Tokyo 113, Japan)

25-30 August 1991. XIV International Congress of Allergology and Clinical Immunology, Kyoto, Japan. (Secretariat, c/o International Communications, Inc., Kaiko Bldg., 2-14-9, Nihombashi, Chuo-ku, Tokyo 103 Japan)


26-30 August 1991. The Pharmacology of Thermoregulation, Kananaskis Village, Alberta, Canada. (Mrs. Grace Olmstead, U. of Calgary, 3330 Hospital Dr., NW, Calgary, Alberta, Canada T2N 4N1)

31 August–5 September 1991. Fifth World Congress for Microcirculation, Louisville, Kentucky, USA. (Patrick D. Harris, Ph.D., Dept. of Physiology and Biophysics, U. of Louisville, Louisville, KY 40292, USA)
Science Fndn., 1 quai Lezay-Marnesia, F-67000 Strasbourg, France

1-6 September 1991. 4th European Conference on The Spectroscopy of Biological Molecules, York, United Kingdom. (Prof. R.E. Hester, ECSBMS 91 Chairman, Dept. of Chemistry, U. of York, Heslington, York YO1 5DD, UK)

1-7 September 1991. International Union of Biologi-


15-21 September 1991. 14th Conference Isoprenoids, Tabor, Czechoslovakia. (Dr. L. Kohout, Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Flemingovo 2, 166 10 Prague 6, Czechoslovakia)

16-19 September 1991. Third French-U.S. Seminar, Multiple Sigma and PCE Receptor Ligands: Mechanisms for Neuroumediation and Neuroprotection, LaGrande Motte, France. (Dr. E.F. Domino, Dept. of Pharmacology, U. of Michigan, Ann Arbor, MI 48109-0920, USA)


18-21 September 1991. 2nd International Conference on Eicosanoids and other Bioactive Lipids in Cancer, Inflammation and Radiation Injury, Klini-
kum Stettin, Berlin, FRG. (Dr. S. Nigam, Eicosanoid Research, Dept. of Gynecological Endocrinology, Free U. Berlin, Hindenburgdamm 30, D-1000 Berlin 45/FRG)


20-23 September 1991. Symposium on Transforming Growth Factor-B and Related Proteins in Develop-

21-25 September 1991. The Founding Congress of the World Federation of Sleep Research Societies, Cannes, France (Jody Frantlauo, Global Events, 279 S. Beverly Dr., #165S, Beverly Hills, CA 90212, USA)

21-25 September 1991. Sociedad Latinoamericana de Nutricion IX Congress of Nutrition, San Juan, Puerto Rico (SLAN, GPO Box 2156, San Juan, Puerto Rico 00936)


22-26 September 1991. Biology of Molecular Chaper-
ones, Castorby, United Kingdom. (Dr. J. Hendekov, European Science Fndn., 1 quai Lezay-Marnesia, F-67000 Strasbourg, France

22-26 September 1991. IVth Meeting of the European Placenta Group: Joint Meeting with the Rochester Trophoblast Conference, Gwatt, Switzerland. (Prof. Dr. H. Schneider, Dept. of Obstet. and Gynecol., U. of Berne, Schanazenckstr. 1, CH 3012 Berne, Switzerland)


23-25 September 1991. National Symposium on Pla-

23-26 September 1991. Biotechnologies and Environment for a Sustainable Development, Montreal, Quebec, Canada. (Diana Chailifour, Universite de Montreal, C.P. 6828, succursale A, Montreal (Quebec) H3C 3J7, Canada

23-26 September 1991. International Symposium on Innovative Fluorescence Methodologies in Biochemistry and Medicine, Rome, Italy. (E. Gattori or J.K. Butzow, U. of Illinois-LFD, Dept. of Physics, 1110 W. Green St., Urbana, IL 61801, USA)

23-26 September 1991. 16th European Symposium: Hormones and Cell Regulation, Travemunde, Alaska, France. (Dr. B. Hamprecht, Physiologisch-chemisches Institut, der Universitats, Hoppe-Seyler-Str. 4, D-7400 Tubingen, FRG)

23-26 September 1991. International Symposium on "Biotechnologies and Environment", Montreal, Que-
bec, Canada. (Biotechnologies and Environment Sym-
posium, Foundation Continue, U. de Montreal, C. P. 6128, Succ. A, Montreal, Quebec, Canada H3C 3J7)


24-27 September 1991. First Congress of UK Biotech-
nologies of the British Coordinating Committee for Biotechnology, University of Leeds, United Kingdom. (Bio tech UK Secretariat, c/o SCI, 15 Belgrave Sq., London WDE 8PS, UK)

25-28 September 1991. 5th International Symposium on Calcium Antagonists: Pharmacology and Clinical Research, Houston, Texas, USA. (Giovanni Lorenzo, Med. Fndn., Marjorie G. Horning, Ph.D., Bay-
lor Coll. of Med., 6008 E, One Baylor Plaza, Houston, TX, 77030, USA)

26-29 September 1991. NIH-ADAMHA: Conference on the Pancreatic Duct Cell, Physiology and Pathophysiology, Baltimore, Maryland, USA. (Sarah C. Kasler, Pancreas Program Dir., NIDDK, 3333 Westwood Blvd., Rm. 3A-17, Bethesda, MD 20892, USA)

26-29 September 1991. Seventh International Sym-
posium on Cellular Endocrinology, Lake Placid, New York, USA. (The Organizing Committee, W. Al-
ton Jones Cell Science Ctr., Inc., 10 Old Barn Road, Lake Placid, NY 12946, USA)

28 September-1 October 1991. Twenty Eighth Annual Meeting of the Society for Leuococyte Biology & Twenty First Leukocyte Culture Conference, Snow-
mass at Aspen, Colorado, USA. (Society for Leuko-
cyte Biology, c/o Dr. S.M. Reichard, Med. Coll. of Ge-
orgia, Augusta, GA 30912-5940, USA)

29 September-3 October 1991. The Variable Gene Repertoire of B and T Cells: Development in Normal and Pathological Conditions, Alase, France. (INSERM Symposium Dept., 101 rue de Tolbiac, 75654 Paris Cedex 13, France)

29 September-3 October 1991. APS Conference: In-
teractions of the Endocrine and Cardiovascular Sys-
tems in Health and Disease, San Antonio, Texas, USA. (Dr. Martin Frank, APS, 9560 Rockefeller Pk., Bethesda, MD 20814, USA)


30 September-2 October 1991. Biology of Nitric Ox-
ide, London, UK. (Georgina Mason, IBC Technical Services, Ltd., Bath House, 56 Holborn Viaduct, Lon-
don ECIA 2EX, UK)


1-3 October 1991. Pharmaceutical and Cosmetics En-
23-26 March 1992. 11th Joint Meeting of British Endocrine Societies, Harrogate, United Kingdom. (Ad-ministrative Officer, Society for Endocrinology, 17/18 North Court, The Courtyard, Woodlands, Almondbury, Bristol BS12 4NQ, UK)

5-9 April 1992. The FASEB Meeting, Anahiem, California, USA. (FASEB O/C of Scientific Msgr., 9560 Rockville Pk., Bethesda, MD 20814, USA)

22-25 April 1992. 2nd International Symposium on Rendothelium-Derived Vasoactive Factors, Basel, Switzerland. (Dr. T.L. Luchter, Dept. of Int. Med., Div. of Cardiology, University Hospital, Petersgraben 4, CH-4031 Basel, Switzerland)

26-23 April 1992. Second Annual Meeting of the Wound Healing Society, Richmond, Virginia, USA. (The Wound Healing Society, Box 117, Richmond, VA 23298-0117, USA)


13-16 May 1992. XI International Symposium on Drugs Affecting Lipid Metabolism, Florence, Italy. (Fondazione Giovanni Lorenzini, Via Monte Napoleon 23, 20121 Milan, Italy)


29 June-5 July 1992. Sixth International Congress of Pharmacology, Rome, Italy. (UTOX, Dr. J. E. Gibson, Chemical Industry Inst. of Toxicology, P.O. Box 12127, Six Davis Dr., Research Triangle Park, NC 27709, USA)

20-23 July 1992. Fifth International Symposium on Selenium in Biology and Medicine, Nashville, Tennessee, USA. (Beverly Conner, Vanderbilt U., School of Medicine, C2034 MCM, Div. of Gastroenterology, Nashville, TN 37232-2279, USA)

26-31 July 1992. 7th International Symposium on Molecular Recognition and Inclusion, Kyoto, Japan. (Hishanobu Goshi, Dept. of Synthetic Chemistry, Kyoto U., Sakyo-ku, Kyoto 606, Japan)

26-31 July 1992. Fifth International Congress for Cell Biology, Madrid, Spain. (Dr. F.J. Medina, Sec. Gen., Fifth International Congress for Cell Biology, Centro de Investigaciones Biologicas, Velazquez 144, 28006 Madrid, Spain)


10-14 August 1992. 21st FEBS Meeting, Dublin, Ireland. (Dr. T. Mandle, Dept. of Biochemistry, Trinity Coll., U. of Dublin, Dublin 2, Ireland)

23-27 August 1992. Eighth International Symposium on Calcium-Binding Proteins in Health and Disease, Davos, Switzerland. (Inst. of Biochemistry III, Universumstr. 16, ETH-Zentrum, CH-8092 Zurich, Switzerland)

23-29 August 1992. 8th International Congress of Immunology, Budapest, Hungary (c/o IPVINTER-CONGRESS, H-1068 Budapest, Dozza Gy. ut 84/a, Hungary)

30 August-4 September 1992. IXth International Congress on Photosynthesis, Nagoya, Japan. (Prof. Norio Murata, Natl. Inst. for Basic Biology, Okayama 444, Japan)


22-26 September 1992. 4th International Congress on Platelet-activating Factor and Related Lipid Mediators, Snowbird, Utah, USA. (Stephen Prescott, CVRTI, Bldg. 500, U. of Utah, Salt Lake City, Utah 84112, USA)

23-26 September 1992. APS Conference: Integrative Biology of Exercise, Colorado Springs, Colorado, USA. (Dr. Martin Frank, APS, 9650 Rockville Pk., Bethesda, MD 20814, USA)

31 October-4 November 1992. Pan American Medical Association Quinquennial Congress, Dallas, Texas, USA. (Coleman Jacobson, M.D., 3600 Gaston Ave., Ste. 1051, Dallas, TX 75246, USA)

4-8 November 1992. APS Conference: The Cellular and Molecular Biology of Membrane Transport, Orlando, Florida, USA (Dr. Martin Frank, APS, 9650 Rockville Pk., Bethesda, MD 20814, USA)

30 November-5 December 1992. 6th Congress of the Federation of Asian and Oceanian Biochemists, Shanghai, China. (Prof. Lin Qidui, Shanghai Inst. of Biochemistry, 320 Yue-Vang Rd., Shanghai 200031, China)

17-22 January 1993. The 1993 Miami Bio/Technology Winter Symposium, Miami Beach, Florida, USA. (Miami Bio/Technology Winter Symposia, PO Box 016129, Miami, FL 33101-6129, USA)

28 March-2 April 1993. The FASEB Meeting, New Orleans, Louisiana, USA. (FASEB O/C of Scientific Msgr., 9650 Rockville Pk., Bethesda, MD 20814, USA)

25-30 July 1993. 32nd International Congress of Physiological Sciences, Sheffield, United Kingdom. (Prof. Denis Noble, IUPS 1993, Congress Secretariat, Dept. of Biomedical Science, The University, Sheffield S10 2TN, UK)

1-6 August 1993. XXIX International Congress of Physiological Sciences, Glasgow, Scotland. (IUPS 1993, CEP Consultants, Ltd., 26-26 Albany St., Edinburgh, EH1 3QH, UK)

22-27 August 1993. XVth International Congress of Nutrition, Adelaide, Australia. (Dr. R. Smith, Gen. Sec., CSIRO Division of Human Nutrition, Kentor Ave., Adelaide, South Australia 5000)

20-21 September 1991. Well-Controlled Studies of Diet and Lipid Metabolism in Humans, Boston, Massachusetts, USA. (Dr. Abby Ershov, Lipid Metabolism-Atherosclerosis Branch, NHLBI Inst., 7550 Wisconsin Ave., Rm. 401, Bethesda, MD 20892, USA)

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


9-15 October 1991. Endocrinology, Diagnosis and Treatment, Bethesda, Maryland, USA (Food. for Advanced Ed. in the Sciences, Inc., One Cloister Ct., Ste. 230, Bethesda, MD 20814-1660, USA)


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

18-24 October 1991. Optical Microscopy and Imaging in the Biomedical Sciences, Woods Hole, Massachusetts, USA. (Ms. Florence Dwanne, Admissions Coordinator, Marine Biological Laboratory, Woods Hole, MA 02543, USA)
5 October-3 November 1991. Concepts in Molecular Biology, Bethesda, Maryland, USA. (American Association of Pathologists, 9650 Rockville Pk., Bethesda, MD, 20814-3993, USA)

8-9 November 1991. Pathology Update, New Orleans, Louisiana, USA. (Terence T. Casey or Michael A. Gerber, Dept. of Pathology, Tulane U. School of Medicine, 1430 Tulane Ave., New Orleans, LA 70112, USA)

10-14 November 1991. Third International Workshop on Cytokines, Stresa, Italy (RES Society, Dr. S. M. Reichard, Med. Coll. of Ga., Augusta, GA 30912-3940, USA)


12-15 November 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)


13-14 December 1991. Well-Controlled Studies of Diet and Lipid Metabolism in Humans, Chicago, Illinois, USA. (Dr. Abby Ershow, Lipid Metabolism-Atherosclerosis Branch, NHLB Inst., 5550 Wisconsin Ave., Rm. 601, Bethesda, MD 20892, USA)

27 February-1 March 1992. 8th Texas Anesthesia Conference for Obstetrics Plus Pediatrics, Houston, Texas, USA. (Carol J. Soroka, The Office of Continuing Ed., Baylor Coll. of Medicine, One Baylor Plaza, Houston, TX 77030, USA)

4-7 March 1992. Philosophical, Ethical and Practical Aspects of Editing Referred Journals, Nashville, Tennessee, USA. (Dr. R. A. Weeks, Dept. of Materials Science & Engineering, P. O. Box 6007-B, Vanderbilt U., Nashville, TN 37235, USA)

9-11 April 1992. Second International Bilirubin Workshop, Trieste, Italy. (J. Donald Ostrow, M.D.(15)), V.A. Lakeside Med. Ctr., 400 E. Ontario St., Chicago, IL 60611, USA)

31 August-1 September 1992. 2nd International Workshop on Fatty Acid-Binding Proteins, Maastricht, The Netherlands. (Dr. J. F. C. Glatz, Dept. of Physiology, U. of Limburg, P. O. Box 616, 6200 MD Maastricht, The Netherlands)


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Cytochrome P-450: Advances and Prospects
The FASEB Journal
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PerSeptive also offers POROS perfusion chromatography media (patents pending), which contain two classes of pores—through pores large enough to allow some convective flow through the particles and smaller, and diffusive pores lining the through pores, which provide high adsorption surface area. Above a critical flow rate, convection dominates over diffusion in the through pores, allowing efficient access to the high surface area diffusive pores throughout the entire particle. The combination of rapid perfusion transport in the through pores and ultra-short path lengths in the diffusive pores make resolution and loading essentially independent of flow rate.

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Bio 101, Inc. introduces a kit for total RNA isolation from cells or tissue. Increased yields compared to other methods allow detection of specific RNA sequences isolated from as few as 1 or 2 cells. RNA recovered is suitable for reverse transcription and amplification, RNase protection assays, in vitro translation, and other applications. The protocol involves cell lysis, binding total RNA to RNAMATRIX and a simple elution step. The kit also includes unique reagents for rapid recovery of RNA from agarose or polyacrylamide gels. Size selected RNA recovered from denaturing gels can be used to produce cDNA of any desired length, which can be amplified.

Bio 101, Inc.

MATREYA introduces d,l-threo-PDMP and congeners to its line of enzyme inhibitors. PDMP resembles closely the natural sphingolipid substrate of ceramide; UDPglucose transferase and is a very potent inhibitor of the enzyme. The palmitoyl analog (PPMP) is even more active than PDMP. Matreya, Inc.
KPL also has TMB Microwell Peroxidase Substrate (1-Component), which produces an intense blue color in the presence of peroxidase-labeled antibodies. Rapid reaction rate permits accurate, quantitative measurement in kinetic ELISA studies (max = 650 nm). The addition of phosphoric acid converts the blue chromophore to yellow and enhances sensitivity for endpoint ELISA determinations (max = 450 nm).

Kirkegaard & Perry

The *rTh* reverse transcriptase reagent kit uses one enzyme for reverse transcription and cDNA amplification. The kit is the first and only research kit that contains all the components necessary to reverse transcribe RNA to cDNA and subsequently amplify cDNA in a single reaction tube using the same enzyme. When using the reagents and protocol provided, this kit facilitates reverse transcription of RNA templates at elevated temperatures and through regions that are G+C rich or contain complex secondary structures. Using the recombinant *Thermus thermophilus* (*rTh*) DNA polymerase as both a thermostable reverse transcriptase and a thermostable DNA polymerase in successive reactions under different conditions, the kit expands the range of templates to which RNA PCR can be applied.

Perkin Elmer SYNOSTAT™ P, an automated instrument designed for the fast and economical synthesis of peptides, includes pre-programmed chemistry strategies for FMOC and t-BOC methods. The user may select activation methods including in-situ BOP, HBTU, symmetrical anhydride, and pre-activated esters. Critical reagents are metered by a syringe system with a unique sealing and flushing design.

Eppendorf North America

ELISA kits for determining interleukin 7 and granulocyte-macrophage colony stimulating factor are designed for the quantitation of cytokines in tissue culture supernates, serum, plasma, and other biological fluids. Quantikine Immunoassays are microtiter based 'sandwich' ELISAs and all necessary reagents are supplied. No plate preparation: all plates are pre-coated and pre-blocked with results in ~ 4.5 hours. Sensitivity is in the single picogram range.

R&D Systems, Inc.

The PAP-PEN provides a thin hydrophobic barrier (insoluble in alcohol and acetone) around tissue sections to retain small volumes of antisera and prevent spreading. It is particularly useful in immunohistochemical and cytochemical staining where small but expensive volumes of antisera must cover the tissue or cells. By placing multiple sections on a slide and ringing each section with the PAP-PEN, different primary antibodies may be applied and compared directly.

The Binding Site

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KPL’s TMB Membrane Peroxidase Substrate (1-Component) offers single-reagent convenience and simplicity. Apply it to the membrane and incubate until bands appear. Similar to KPL’s three component TMB, it produces crisp bands of intense blue color at membrane sites bearing peroxidase. It is ideal for detecting immobilized proteins produced by Western transfer or dot blots.
Software

Compact Cambridge has enhanced its MEDLINE CD-ROM by adding the “Reference Update” service to each monthly MEDLINE update disc. Reference Update provides the full citations from the tables of contents of just-published journals up to 3 months before this information is available from online services. The new feature will become part of the basic Compact Cambridge MEDLINE service, provided with every update disc at no additional charge. Initial shipment will begin with the August MEDLINE update disc.

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Tripos Associates

A software version of the ACCESS*CHROM chromatography data system provides an audit trail for laboratories engaged in biological analysis to ensure positive record and documentation of changes for Good Laboratory Practice (GLP) requirements. The audit trail software tags a method, enabling the user to automatically monitor all subsequent editing of that method and to provide a history of record changes for GLP purposes. The audit history includes information on what method parameters were changed; why and when the changes were made, and who made them. Perkin Elmer

SYSTAT, Inc. announces the U.S. release of Mesosaur, a time series analysis package offered as a companion to SYSTAT™, the statistical analysis, data management, and graphics software. Mesosaur analyzes time series data via a variety of procedures and models, with sophisticated interactive graphics support. It is unique in its real-time linkage of analyses and the resulting graphs—including plots and models. Observations may occur at any fixed time interval from one min to several years, or on any arbitrary time scale. SYSTAT

Literature

GC/MS Update is a new bimonthly series of current-awareness bulletins containing timely extracts from the recent literature on gas chromatography-mass spectrometry methods, applications and techniques in selected areas of interest.

The bulletin on clinical, biomedical, and drugs covers the uses of GC/MS in clinical and medical studies, and in the analysis of drugs for medical and forensic applications. The printed version contains abstracts that emphasize the GC/MS interest of the original publication, with full details of sample preparation and the GC and MS setups; CAS registry numbers, chemical structures, and an editorially controlled keyword index. The PC version (for IBM's and compatibles) incorporates abstracts into a memory-resident program in which every word in the abstract and the bibliography is searchable. HD Science Ltd.

Chemicon offers its spring 1991 catalog of antibody preparation reagents and antibody purification reagents, along with its custom services, diagnostic kits, and newsletter updates. Chemicon

The 1991 catalog from Vector Laboratories introduces over 75 new products, including a tissue adhesive, a neuronal tracing reagent, and enzyme substrate kits. Other products include non-radioactive detection for immunohistochemical, enzyme immunoassay, and transfer blot techniques. In addition is the VECTASTAIN® ABC family of avidin-biotin amplified reagents, including the most sensitive peroxidase-based system, the VECTASTAIN® Elite ABC kits.

Vector Laboratories

A brochure that features cell culture factors and cytokines details more than 70 proven Boehringer Mannheim products, including growth, attachment and transport factors, cytokines and interleukins; antibodies to factors and cytokines, and lectins. Sources are natural, recombinant, or synthetic.

Boehringer Mannheim

An 8-page brochure on Janssen Biochemical Ig subclass provides information on a variety of polyclonal, anti-human IgG subclass reagents. In addition to a listing and description of the 48 reagents available, the catalog includes Ig subclass structure, determination, and allotypes.

Accurate Chemical

Interaction now distributes E. Merck's guaranteed and silica-based HPLC column, described in a brochure.

Interaction also manufactures and distributes an expanding line of polymer-based products. Also available is a trace analysis carbohydrate column. The CHO-610H carbohydrate column is designed for high pH applications using pulsed amperometric detection (PAD). Interaction Chemicals Inc.

SynChrom has available its 1991 bibliography, which contains references to 340 articles about HPLC of biomolecules. Each reference lists the type of chromatographic technique used, including ion-exchange, cation-exchange, hydrophobic interaction, reversed-phase, size-exclusion, short-chain deactivated, and hydroxyapatite chromatography. Also included is an index of the compounds that were separated in each of the articles. SynChrom, Inc.
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 7½ inches × 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 inviting 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 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 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

CLINICAL CHEMISTRY FELLOWSHIPS at Mayo Clinic. Seeking applicants for one or two year fellowships in training programs directed toward qualified individuals (Ph.D. or M.D. required) pursuing careers in clinical chemistry. Individuals completing the program are eligible for certification by the American Board of Clinical Chemistry or for subspecialty certification by the American Board of Pathology. Applications on file by July (pathology) or October (postdoctoral) 1991 will be considered for appointment in July of 1992. Contact Mary F. Burritt, Ph.D., Division of Laboratory Medicine, Mayo Clinic, Rochester, Minnesota 55905, for more information. Mayo Foundation is an affirmative action and equal opportunity educator and employer.

FACULTY POSITION, PHARMACOLOGY. The Department of Pharmacology has a position as Instructor (nontenure, research track) available on or before August 1, 1991 to teach graduate students and perform research. Applicants should have two years postdoctoral experience, a strong background and extensive experience in NMR including the application of two-dimensional NMR experiments, heteronuclear spectral editing techniques, conformational analysis of peptides using nuclear Overhauser effects, as well as working knowledge of molecular dynamics analysis of peptides. Interested persons should send CV to Dr. Lila M. Gierasch, Department of Pharmacology, The University of Texas Southwestem Medical Center at Dallas, 5323 Harry Hines Boulevard, Dallas, TX 75235-9041. An equal opportunity employer.

ASSISTANT PROFESSOR/CLINICAL PHARMACOLOGY. The Center for Clinical Pharmacology at the University of Pittsburgh Medical Center is seeking a qualified Assistant Professor of Clinical Pharmacology. Candidates must hold a degree in medicine and must be eligible for, or hold, Board Certification in Internal Medicine. Candidates also must have two years postdoctoral training in a recognized clinical pharmacology training program in basic or clinical research. Address replies to Nancy A. Paulsen, Administrator, Center for Clinical Pharmacology, University of Pittsburgh Medical Center, 623 Scaife Hall, Pittsburgh, PA 15261. An equal opportunity/affirmative action employer.

INSTRUCTORS/CLINICAL PHARMACOLOGY. The Center for Clinical Pharmacology at the University of Pittsburgh Medical Center is seeking a qualified Instructor of Clinical Pharmacology. Candidates must hold a degree in medicine and have at least three years research experience in renal physiology and blood pressure regulation. In addition, the Center for Clinical Pharmacology is seeking a basic scientist with research interests in nephrology for the position of Instructor. Candidates must hold Ph.D. and have three years postdoctoral experience in renal physiology and preferably have experience with renal tubule micropuncture techniques. Address replies to Nancy A. Paulsen, Administrative Analyst, Center for Clinical Pharmacology, University of Pittsburgh Medical Center, 623 Scaife Hall, Pittsburgh, PA 15261. An equal opportunity/affirmative action employer.

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EMLOYMENT OPPORTUNITIES

Vol. 5 July 1991
Postdoctoral Training
Toxicology and Carcinogenesis

Positions are available for studies in various aspects of cancer research and toxicology in the Center in Molecular Toxicology through the Departments of Biochemistry, Chemistry, Medicine, Pharmacology, and Pathology. Areas of investigation relating to toxicology and carcinogenesis are: 1) metals, 2) enzymatic oxidation, 3) thiols and selenides, 4) DNA damage and repair, 5) natural products, 6) molecular recognition, and 7) development of analytical methods. Salaries are negotiable.

Faculty

Ian A. Blair
Robert C. Briggs
Raymond F. Burk
Peter Gettins
F. Peter Guengerich

Thomas M. Harris
Mark M. Jones
R. Stephen Lloyd
Lawrence J. Marnett

Applicants should submit curriculum vitae and three letters of recommendation to Dr. F. Peter Guengerich, Director, Center in Molecular Toxicology, Vanderbilt University, School of Medicine, Nashville, TN 37232-0146

An Affirmative Action/Equal Opportunity Employer

PRE- AND POSTDOCTORAL TRAINING POSITIONS, PULMONARY PHYSIOLOGY. Training is offered at the University of Wisconsin-Madison under the terms of an NIH training grant. Training faculty includes G. E. Biggar, J. A. Dempsey, G. S. Mitchell, J. B. Skatrud, and E. H. Vidruk. Research includes chemoreceptor physiology, neural regulation of tracheal smooth muscle, exercise and sleep effects on neural-mechanical regulation of breathing and respiratory muscle regulation. Write to J. A. Dempsey, Ph.D., Department of Preventive Medicine, 504 N Walnut Street, Madison, WI 53705. The University of Wisconsin is an affirmative action/equal opportunity employer.

RESEARCH FELLOWSHIPS/IMMUNOLOGY. Candidates should have a background in cellular immunology and molecular biology/biochemistry with a desire to join an intense research program. Programmatic themes are T cell activation/signalling pathways, human B cell development and human IgE regulation. Send CV and three letters of reference to Dr. Andrew Saxon or Dr. Andre Nel, Division of Clinical Immunology and Allergy, Department of Medicine, UCLA School of Medicine, 52-175 CHS, Los Angeles, CA 90024-1880. UCLA is an affirmative action/equal opportunity employer.

MOLECULAR BIOLOGY TECHNICIANS. The Department of Internal Medicine, Emory University is pleased to announce the establishment of a core facility for molecular biology to be located at the VA Medical Center in Decatur, Georgia. Technician(s) are sought for this facility, as well as for a more specialized laboratory to study molecular biology of pulmonary processes. Activities will include oligonucleotide synthesis, DNA sequencing and cloning. PCR techniques to detect infectious agents and disease alleles will also be employed. Previous experience in DNA/RNA manipulations is helpful but not mandatory. The successful applicant must be dependable and personable. Salary will be commensurate with experience. Send CV and references to Debbie Jernigan, Human Resources Coordinator, 1364 Clifton Road NE, Suite F410, Atlanta, GA 30322. Emory University is an EEO/AA employer.

RESEARCH ASSISTANT PROFESSOR. The Department of Animal Sciences, University of Missouri, announces an opening for a Research Assistant Professor. This will be a 12-month, nonrenewal-track position. The successful candidate of this position will develop an interdisciplinary research program utilizing radioanalytical research tools and will involve interested faculty, staff and students of the Department of Animal Sciences and the MU Research Reactor (MURR). The successful candidate must seek external funding for and implement the conversion of the existing whole-body counter into an energy spectrometer. External funding to support general metabolic tracer research is expected. This individual must also assist faculty, staff and students in the productive use of the spectrometer and radioanalytical research methodologies. With assistance from MURR personnel, this person will develop more extensive use of neutron activation analyses, radioisotope production, metabolic tracers, stable activatable tracer studies and body composition measurements. This person would be expected to develop a graduate-level course utilizing the fundamentals and utilization of radioanalytical methods in animal science based research. The salary is competitive and commensurate with training and experience. Closing date is July 15, 1991. Please submit a resume, statement of research interests and three letters of recommendation to Dr. Monty S. Kerley, Department of Animal Sciences, 111 ASRC, University of Missouri, Columbia, MO 65211 (314) 882-0854.

POSTDOCTORAL, CIRCADIAN RHYTHMS/PINEAL CELLS. Study the mechanisms of regulation, generation and expression of circadian rhythms. Recent emphasis has been on the melaninin rhythm in primary cultures of chick pineal cells using pharmacologic and biochemical approaches. Stipend from $25,000 depending on training and experience. Full federal benefits package is usually available depending on appointment mechanism. Send CV, a brief description of research background and interests and a list of three references to Dr. Martin Zatz, National Institute of Mental Health, Building 36, Room 2A-17, Bethesda, MD 20892. NIMH is an equal opportunity employer.

RESEARCH SPECIALISTS. Emory University is currently seeking entry and advanced level research specialists to fill various openings. Entry level positions require bachelor's degree in related science field and advanced level positions require master's degree or bachelor's degree and two years research experience. Candidates are expected to submit a resume with attached list of techniques in which experienced to Emory University, Human Resources Department, 637 Asbury Circle, Atlanta, GA 30322. An EEO/AA employer.
ASSISTANT PROFESSOR, PHARMACOLOGY AND PHYSIOLOGY. The Department of Pharmacology/Physiology in the School of Dental Medicine of the University of Pittsburgh seeks applicants for a tenure-track position at the level of assistant professor. Preference will be given to candidates with training in molecular pharmacology, signal transduction, or second messenger systems (D.M.D./Ph.D. or Ph.D. with 2–3 years postdoctoral experience). Individuals with expertise in other pharmacologic disciplines will also be considered. Applicants should be capable of developing a funded research program and be committed to teaching of graduate and undergraduate students. To apply, send CV and the names of three references to Dr. Regis R. Vollmer, Department of Pharmacology/Physiology, School of Dental Medicine, University of Pittsburgh, Pittsburgh, PA 15261. The University of Pittsburgh is an equal opportunity/affirmative action employer.

POSTDOCTORAL RESEARCH ASSOCIATE. U.S. Department of Agriculture (USDA), Agricultural Research Service (ARS), Plant, Soil, and Nutrition Laboratory (located at Cornell University), Ithaca, New York, is seeking Ph.D. with background in cell biology to develop techniques for monolayer culture of polarized epithelial cells and to establish procedures for using modern electrophysiology techniques for studying transport of iron across cell membranes. Preference will be given to candidates with backgrounds in tissue/ cell culture and/or ion transport. Salary commensurate with experience ($31,116 to $37,294). Applicants must have received Ph.D. within past three years. Temporary appointment possible with possibility of extension. Send CV to Darrell Van Campen, USDA-ARS, Plant, Soil, and Nutrition Laboratory, Tower Road, Ithaca, NY 14853. Applications must be marked 1N057. USDA-ARS is an equal opportunity/affirmative action employer.

MOLECULAR BIOLOGY RESEARCH ASSOCIATE. The Department of Internal Medicine, Emory University is pleased to announce the establishment of a core facility for molecular biology to be located at the VA Medical Center in Decatur, Georgia. An individual is sought to help coordinate the activities of this facility which will feature oligonucleotide synthesis, DNA sequencing and cloning. Scientific interests will include application of polymerase chain reaction (PCR) technology to the study of signal transduction by hormones, drugs and autotoids via G proteins. PCR techniques to detect infectious agents and disease alleles will also be employed. The facility will endeavor to apply molecular biological techniques to a wide variety of problems related to medical science and human disease. The successful applicant will view the establishment of the new core facility as a challenging opportunity and will express a desire to help the investigators in the several divisions of the Internal Medicine Department who are initiating projects in molecular biology. Salary to be commensurate with experience, with the possibility of permanent employment as part of the VA Medical Center. Send CV with list of publications, representative reprints and references to Debbie Jernigan, Human Resources Coordinator, 1364 Clifton Road NE, Suite F410, Atlanta, GA 30322. Emory University is an EO/AA employer.

ASSISTANT PROFESSOR. The Department of Pharmacy, University of California, San Francisco, California, invites applications for a tenure-track Assistant Professor. Applicants should have Ph.D. or equivalent. Postdoctoral research experience is preferred. It is expected that the appointee will develop a strong and independent research program in the area of mechanisms of drug disposition (e.g., metabolism, transport, pharmacogenetics) or drug action. Teaching responsibilities will be both in the professional curriculum and in the graduate program and will likely be in the area of pharmacokinetics/pharmacodynamics and/or other areas of the appointee's expertise. Send CV, a summary of current research, a concise outline of future research plans and the names of three individuals willing to provide letters of recommendation by August 30, 1991 to Svein Øie, Ph.D., Professor of Pharmacy and Pharmaceutical Chemistry, Department of Pharmacy, S-926, Box 0446, University of California, San Francisco, CA 94143-0446. UCSF is an equal opportunity/affirmative action employer. Women and minorities are encouraged to apply.

RESEARCH ASSOCIATES. Three postdoctoral positions will be available in the laboratory of Dr. Leaf Huang on or after August 1, 1991, for a recent Ph.D. to work on the targeted gene therapy with liposomes or other nonviral vehicles. Experience with liposome and/or molecular biology is required. Salary negotiable. Send letter, CV and three letters of reference to Carol Larson-Edwards, E-1340 Biomedical Science Tower, Department of Pharmacology, University of Pittsburgh School of Medicine, Pittsburgh, PA 15261. Equal opportunity/affirmative action employer.

POSTDOCTORAL FELLOW/JUNIOR RESEARCH ASSOCIATE. A position is immediately available to participate in NIH funded research on the regulation of inflammatory cell metabolism and function. Main focus is on the role of arginine and reactive nitrogen intermediates in the control of inflammation and wound healing. Competitive salary and benefits. Interested candidates with Ph.D. in biochemistry, cellular biology or immunology should send CV, statement of research interests and the names of three references to Jorge E. Albina, M.D., Division of Surgical Research, Department of Surgery, Rhode Island Hospital, 593 Eddy Street, Providence, RI 02903. An equal opportunity/affirmative action employer.

RESEARCH ASSISTANT PROFESSORS. The Division of Hematology/Oncology seeks two Ph.D. research scientists. Must have at least two years experience in the molecular biology and protein biochemistry of heme biosynthesis in eukaryotic cells. Send resume and three letters of recommendation to James P. Kushner, M.D., Head, Division of Hematology/Oncology, University of Utah Medical Center, Salt Lake City, UT 84132. Closing date: July 31, 1991 or when suitable candidate identified. The University of Utah is an EEO/AA employer.

POSITIONS DESIRED

Ph.D., 1983; Molecular biology, protein/lipoprotein chemistry, immunology; Cloning (lambda II zap, plasmids), PCR, Northern/Southern Western blotting, protein/lipoprotein purification (all forms of chromatography, gel electrophoresis), enzyme kinetics, tissue culture; Avail. April 1991; Academia/industry/government. 2-1313

Ph.D., 1984; Molecular biology, biochemistry; Transcriptional/translational control of gene expression, ribosomes, antisense DNA, cloning, PCR, site-directed mutagenesis, DNA synthesis, Northern/Southern blotting, DNA/RNA sequencing; Avail. July 1991; Research in industry/government; Salary negot. 2-1344

Ph.D., 1992 (expected); Immunoochemistry, rheumatology, cancer biology, microbiology; Immunooassay development, tissue culture, MAb and Ab production and conjugation, chromatography, membrane technology, microscopy, computer analysis and graphics, proteozology, gel electrophoresis; Avail. April 1992; Postdoc. in academia/industry. 6-1499

DPM, 1984; Ph.D., 1987; Virology, immunology; HIV infections (acute and chronic), B cell ELISA spot assay, NK cell cytotoxicity assays, tissue culture experience, SCID mouse reconstitution with human cells, regulatory experience for new drug approvals with FDA; Avail. July 1992; Research/industry; Salary negot. 6-1595

Ph.D., 1986; Physiology, biophysics; In vitro and in vivo vascular pharmacology, hemodynamics, perfusion studies, bioassay, endothelial-derived factors, neuroeffector transmission, vasopasm, arteriograph, myography, cell culture, RIA, HPLC, fluorometric measurements of calcium, eicosanoids, growth factors; Avail. July 1991; Industry; Salary negot.; PR. 1-1597

Ph.D., 1992 (expected); Cell physiology, pharmacology; Signal transduction in smooth muscle cells, receptor kinetics and mathematical modeling, electron microscopy, cell fluorescent labelling, animal surgery, computer programming, EDR and endothelial cell physiology; Avail. April 1992; Postdoc. in academia/industry; Salary negot.; Fl. 1-1598

Ph.D., 1991 (expected); Molecular biology; Hormone-regulated gene expression, cell culture, cDNA and genomic DNA library construction and screening, DNA cloning, PCR, Northern, Southern and Western blotting, DNA sequencing, RIA, ELISA, electron microscopy; Avail. December 1991; Postdoc./research associate; Fl. 2-1599

Ph.D., 1985; Protein chemistry; Characterization by composition & sequencing, isolation & purification, HPLC & electrophoretic techniques, spectroscopy, semisynthetic proteins, site-specific modifications, H-1 & C-13 NMR for structure/function, interactions, dynamics; Avail. July 1991; Academia/industry; Salary negot. 2-1600

Ph.D, 1992 (expected); Physiology, molecular biology; DNA, RNA isolation, North, South analysis, riboprobe, oligonucleotide probe manipulation, random primer labelling, DNA sequencing, library screening, PCR, restriction map, subcloning, HPLC for phentolamine drug, RIA, bioassay of ACTH, LH; Avail. February 1992; Postdoc.; Fl. 2-1601
Ph.D., 1991 (expected); Biochemistry; Protein purification and enzymology of membrane bound proteins, solubilization of enzymes, HPLC, FPLC, synthesis of substrates and photoaffinity labels, gel electrophoresis and kinetic analysis of enzymes; Avail. December 1991; Postdoc. in government/academia/industry; Salary negot. 2-1602

Ph.D., 1992 (expected); Free radical biology, biochemistry, cellular physiology; Chromatography (HPLC, GC, TLC), gel electrophoresis, spectrophotometry, microscopy, histology, enzymology; Avail. May 1992; Postdoc. in academia/industry; Salary negot. 2-1603

Ph.D., 1990; Biochemistry, molecular biology; cDNA library screening and amplification, DNA cloning/sequencing/expression, site-directed mutagenesis, PCR, protein purification/characterization/modification, Western/Southern blots, kinetics and mechanism studies, IEF, HPLC; Avail. October 1991; Research in industry/academia; Salary negot.; H1. 2-1605

M.D., 1987; Ph.D., 1991 (expected); Biochemistry, immunology, molecular biology, protein biochemistry; Gel electrophoresis, electron microscopy, column chromatography, cloning, tissue culture, biophysical chemistry; Avail. September 1991; Postdoc. in academia/industry; Salary negot.; PR. 2-1606

Ph.D., 1991 (expected); Nutrition, physiology; Carotenoids, mineral metabolism, clinical trials, HPLC, cell culture, AAS, RIA; Avail. March 1992; Postdoc. in academia/government or faculty position; Salary negot. 5-1607

Ph.D., 1989; Nutrition science, anthropology, human nutrition, health related dietetics; Atomic absorption spectrophotometry, high pressure liquid chromatography, summarization/analysis/reporting of large complex databases; Avail. September 1991; Research/teaching/clinical; Salary negot. 5-1608

Ph.D., 1991 (expected); Immunology, parasitology, cytokine biology; Northern blotting, cytokine bioassays, ELISA, NK assay, flow cytometry, MAb production, cell culture, SDS-PAGE; Avail. August 1991; Postdoc. in academia/government/industry. 6-1609

Ph.D., 1992 (expected); Pharmacology; Protein purification, receptor isolation, subcellular organelle isolation, gel electrophoresis, Western blot, protein phosphorylation, phosphoamino acid analysis, immunoprecipitation, cell culture, signal transduction, receptor binding assay; Avail. March 1992; Postdoc.; Fl. 3-1610

Ph.D., 1988; Bio-organic chemistry, enzymology, molecular biology, protein chemistry, bacterial genetics; Organic synthesis, enzyme kinetics and inhibition, protein purification, mapping, cloning and sequencing, blotting, gel electrophoresis, stopped-flow fluorimeter, HPLC; Avail. August 1991; Research, industry; Salary negot.; PR. 2-1611

Ph.D., 1982; Molecular biology, biochemistry, cell biology; Eukaryotic DNA replication, gene expression, recombinant DNA technology, chromatin structure and function, isolation, PCR amplification and detection of DNA, all major molecular biology techniques; Avail. September 1991; Research in academia/industry; H1. 2-1612

M.D., 1985; M.Sc., 1991; Immunology, microbiology; Tissue culture, molecular biology, in vitro HIV-1 infection assay, level 3 laboratory, flow cytometric analysis, lymphocyte purification, immunoperoxidase assay, Western/Southern blotting, data processing/analysis in PC; Avail. July 1991; Research; Salary negot. 8-1613

Ph.D., 1992 (expected); M.D., 1988; Cell biology, physiology, cardiovascular pharmacology; Isolated vessel experiment, closed cranial technique; Avail. August 1992; Postdoc. in academia/industry/hospital; Salary $25,000; PR of Canada. 3-1615

Ph.D., 1984; Biochemistry, cell biology; Enzyme purification, characterization, kinetics, amino acid and peptide analyses, peptide purification, sequencing, SDS-PAGE, HPLC, FPLC, chromatographies, receptor studies, RIA, RRA, Western blotting, tissue culture, in vitro bioassays; Avail. December 1991; Research; Salary 40K plus; PR. 2-1616

Ph.D., 1988; Physiology; Isolated perfused lungs, oxidant stress, antioxidant enzyme assay, oxidant assay, liposome preparation and administration, leukocyte and alveolar type II cell isolation, blood flow (in vivo) and vascular resistance measurement, low-level cheluminescence; Avail. July 1991; Research/teaching; Salary negot. 1-1617

Ph.D., 1989; Molecular biology, microbiology; In situ hybridization, PCR, DNA sequencing, cDNA library construction, fusion protein analysis, subcloning, immunoprecipitation, Western/Northern blotting, tissue culture, antisense methods, models of vascular smooth muscle cell proliferation; Avail. July 1991; Industry research. 2-1618

Ph.D., 1989; R.D., 1993 (expected); Toxicology, nutrition, food science, immunotoxicology; Toxicity testing, cell culture, HPLC, nutrition counseling, diet technologist, clinical nutrition studies; Avail. September 1992; Research/teaching/public health nutrition; Academia/government/industry; Salary negot. 5-1619

Ph.D., 1991 (expected); Molecular biology, biochemistry, enzymology; cDNA cloning and sequencing, PCR, Southern/Western blotting, recombinant protein expression and purification, site-directed mutagenesis, enzyme kinetics; Avail. January 1992; Postdoc. in academia/industry; Salary negot.; Fl. 2-1620

Ph.D., 1991 (expected); Molecular biology, biochemistry; Library screening, Southern and Western blotting, transfection, sequencing, cell culture, protein purification, amino acid analysis, HPLC, GC, fluorescence, UV-visible detection, capillary electrophoresis, PAGE-SDS gels, 2D gels; Avail. September 1991; Postdoc. in academia/industry; Salary negot. 2-1621

Ph.D., 1990; Cardiovascular pharmacology; Vascular grafts, isolated blood vessels, perfused heart, stereotaxic surgery, brain nano-injection and lesions, regional blood flows, blood pressure, vessel and brain histopathology, radioactive uptake, HPLC, computer; Avail. January 1992; Industry/academia; Salary negot.; H1. 3-1622

Ph.D., 1988; Immunology, cell biology; Tissue culture, lymphokine bioassays, NK, LAK & CTL assays, limiting dilution assays, cellular responses of gut-associated lymphoid tissues, teaching; Avail. August 1991; Research/teaching; Salary negot. 6-1623

M.D., 1970; Ph.D., 1980; Physiology; GI motility in vitro & in vivo, human GB (HIDA), (Ca2+)(aqequorin) & I3P (HPLC) in airway smooth muscle, dose-response relationships, animal surgery, computer data processing, 10 years teaching medical physiology; Avail. June 1991; Research/teaching in academia/industry/government; Salary negot.; PR. 1-1624

Ph.D., 1987; Dairy science, ruminant nutrition, animal physiology; Traditional nutritional techniques, RIA, short-term tissue slice incubations, enzyme activity assays, surgery and teaching; Avail. July 1991; Government/industry/academia; Salary negot. 5-1625

Ph.D., 1983; Molecular biology, biochemistry, genetics; Genomic and cDNA library construction, DNA cloning and subcloning, DNA sequencing and computer analysis, PCR, RFLP analysis, Northern, Southern and Western blotting, hybridization, tissue culture; Avail. July 1991; Clinical/R&D laboratory DNA diagnostic; PR. 2-1626

Ph.D., 1991 (expected); Biochemistry; Protein purification, enzyme kinetics, 2D-gel electrophoresis, HPLC of drug metabolites, UV/Vis spectrophotometry, tissue culture, radiochemistry; Avail. January 1992; Postdoc. in academia/industry; Salary negot.; Fl. 2-1629

Ph.D., 1989; Cell biology, molecular biology, biochemistry; Tissue culture, isolation and analysis of mRNA and DNA, Northern/Southern blot, hybridization, recombinant and amplification of DNA, purification and analysis of protein; Avail. July 1991; Postdoc. in academia; Salary negot.; J1. 2-1630

Ph.D., 1991 (expected); Pharmacology, toxicology, neuroscience, neurochemistry; RIA, neurohistologic method, receptor binding, neurotransmitter uptake and release, enzyme activity assay, APTases, GOT, GTP, ornithine decarboxylase, GABA system related chloride flux; Avail. December 1991; Postdoc. in academia/government; Salary negot.; Fl. 3-1631

Ph.D., 1990; Immunology, microbiology, cell biology, biomedical science; Tissue culture, in vivo murine and avian, protein biochemistry, MAB production, flow cytometry, histology, computer (PC), teaching and public seminar; Avail. June 1992; Teaching and/or research. 6-1632

Ph.D., 1992 (expected); Molecular biology, protein chemistry; Site-directed mutagenesis, cloning, mammalian cell expression, Western blotting, PCR, DNA sequencing, spectrophotometry, electrophoresis; Avail. May 1992; Academic position or postdoc.; Salary negot.; Fl. 2-1633
Ph.D., 1979; Receptor biochemistry, cell biology, pharmacology; Tissue culture, protein purification and characterization, transport, immunotechniques, fluorometry, kinase/phosphatases, signal transduction, antibody preparation, atomic absorption and radioisotopes; Avail. July 1991; Research/teaching/government/industry; 2-1634

Ph.D., 1992 (expected); Biochemistry, molecular biology; Membrane protein solubilization and reconstitution, column chromatography, phosphorylation, crosslinking, Western/Northern blotting, cloning, library screening, RNA extraction, site-directed mutagenesis; Postdoc.; Avail. March 1992; Salary negot.; Minnesota. 2-1636

Ph.D., 1986; Biochemistry, enzymology, receptor biochemistry; Enzyme & radioligand binding assays, enzyme, peptide, receptor purification, gel, ion, affinity, HPLC, FPLC, IEF, SDS-PAGE, ID, 2D, Western blots, immobilization, crosslinking, receptor sequencing; Avail. April 1992; Industry/academia; Research/teaching; Salary negot.; HI. 2-1637

Ph.D., 1990; Protein chemistry; Protein sequence, amino acid analysis, protein purification and characterization, enzymatic and chemical cleavage of protein, chromatography, HPLC, FPLC, gel electrophoresis, cysteine proteinase purification, characterization; Avail. July 1991; PR. 2-1639

M.D., 1982; Ph.D., 1992 (expected); Pharmacology, molecular biology; PCR, Southern/Northern blot, cloning, receptor binding, cell culture, kidney microdissection, renal tubule isolation, animal surgery, cardiac function and mechanics assay, vessel muscle bioassay; Avail. June 1992; Research in academia/industry; Salary negot.; Fl. 3-1640

Ph.D., 1990; Cardiovascular and autonomic pharmacology; Isolated heart and vascular preparations, instrumentation of small animals, receptor binding and analysis, HPLC, radioimmunoassays, second messenger assays, tissue and membrane preparations; Clinical or basic research; Avail. July 1991; Salary negot. 3-1641

Ph.D., 1989; Nutrition, nutritional biochemistry, animal science; Large and small animal handling experience, animal surgery, PAGE, HPLC, column chromatography, trace analysis, enzyme analyses, radioisotope use, statistical analysis, computer modeling, prior teaching experience; Avail. August 1991; Research/teaching; Salary negot. 5-1642

Ph.D., 1992 (expected); Immunology, microbiology, psychoneuroimmunology; Tissue culture, cytokine bioassay, T cell frequency analysis, ELISA, RIA, FACS analysis, histology, immunohistochemistry, Northern blot, viral assay, hormone and neurotransmitter assay; Avail. February 1992; Postdoc. in academia/industry; Salary negot.; Fl. 6-1644

M.S., 1991 (expected); Physiology; Instructor in undergraduate biology, anatomy, physiology, graduate teaching assistant in physiology, live animal research (injections); Avail. August 1991; Teaching; Salary negot. 8-1646

M.S., 1990; R.D.; Nutrition/biochemistry; Atomic absorption spectroscopy, fluorometry, enzymatic & radioisotopic assays, animal research & metabolism, dissection, cell isolation, mineral absorption & bioavailability, supervisory & teaching experience; Avail. August 1991; Research/teaching; PR. 8-1647

M.S., 1987; Molecular biology, immunology; PCR (multiple uses), DNA sequencing, DNA and RNA isolation and purification, R.Nase protection, Southern blotting, gel shifts, tissue culture transfection, CAT assays, FACS analysis; Avail. July 1991; Research in industry/academia; Salary negot. 8-1648

M.S., 1991 (expected); Pharmacology, pharmacokinetics, nutrition, biochemistry, analytical biochemistry; HPLC, RIA, cell culture, ELISA, animal surgery, peptide synthesis and analysis; Avail. September 1991; Research scientist in academia/industry; Salary negot.; Fl. 8-1649

Ph.D., 1991; Biochemistry, enzymology, protein chemistry; Enzyme purification and kinetics, NMR spectroscopy, UV/Vis spectroscopy, chromatography (ion exchange, affinity, HPLC), gel electrophoresis, fluorescence spectroscopy, industrial postdoc. experience; Avail. December 1991; Research in industry; Salary negot.; HI. 2-1650

Ph.D., 1991 (expected); Biophysical chemistry; NMR relaxation modeling of lipids, spin-label EPR, developed and taught honors enzymology and recombinant DNA laboratory and seminar course on atherosclerosis; Biochemistry membrane-related postdoc.; Salary negot.; Avail. July 1992. 2-1651

Ph.D., 1991 (expected); Nutritional biochemistry, immunology; Tissue culture, in vitro bioassays, tissue histology, immunological and enzyme assays, tissue trace element analysis, animal studies with rats, mice and MRL autoimmune mice; Avail. January 1992; Postdoc. in academia/industry in basic or clinical research; Boston or Northeast; Salary negot. 5-1652

Ph.D., 1989; Enzymology, protein and lipid chemistry; Enzymatic assays, kinetics, protein purification/characterization, subcellular fractionation, chromatography, HPLC, RIA, ELISA, electrophoresis, radioisotopes, statistics, computer (FORTRAN/BASIC, VAXII/780/Macintosh); Avail. July 1991; Research in academia/industry; Salary negot.; HI. 2-1653

Ph.D., 1976; Electrophysiology, pharmacology, biochemistry; Patch clamp, microelectrode and sucrose-gap techniques, cell culture, RIA method, teaching experience; Avail. September 1991; Academia or industrial position, research/teaching; Salary negot. Jl. 1-1654

Ph.D., 1990; Physiology, cell biology, protein chemistry; Western blotting, molecular biology, signal transduction mechanisms (growth factors, protein kinases, small GTP-binding proteins); Avail. January 1992; Research/teaching; Salary negot.; HI. 1-1655

Ph.D., 1987; Biophysical chemistry; Electron transfer in biological systems, high pressure biochemistry, second derivative absorption spectroscopy, fluorescence, protein stability and conformational analysis, protein/folding of oligomers, GROEL/ES assisted protein folding; Avail. June 1992; Academia/industry; Salary negot.; Midwest/Mid-Atlantic. 2-1657

Ph.D., 1987; Enzymology, protein chemistry; Protein purification and analysis, enzyme characterization, protein folding, protein microsequencing, protein kinases, enzyme kinetics, HPLC, gene cloning, DNA manipulation and sequencing, antibody production; Avail. July 1991; Research and development in industry/government; Salary negot. 2-1658

Ph.D., 1992 (expected); Enzymology, protein chemistry; Protein purification and analysis, enzyme characterization, protein microsequencing, protein kinases, DNA polymerase, protein methylases, enzyme kinetics, HPLC, Western blotting; Avail. February 1992; Postdoc. in academia/industry; Salary negot.; Fl. 2-1659

Ph.D., 1991 (expected); Biophysical chemistry; 2D NMR and molecular modeling for DNA structure, thermodynamics and kinetics of drug-DNA interaction, DNA purification, HPLC, UV/Vis, CD, GC, FT-IR and stopped-flow; Avail. December 1991; Research/postdoc. in industry; Salary negot.; Fl. 2-1660

Ph.D., 1989; Enzymology, protein chemistry, molecular biology; Multi-enzyme complex, protein phosphorylation, protein purification & characterization, microsequencing, enzyme kinetics, gene cloning, expression & mutagenesis, immunochemical analysis; Avail. January 1992; Research and development in industry/government; Salary negot.; PR. 2-1661

Ph.D., 1987; Biochemistry; Protein chemistry, chemical modification, hydrophobic peptides purification, kinetics, HPLC, membrane protein topography determination by protein chemical methods, cloning and expression in bacteria and mammalian cells, tissue culture, Western blotting; Avail. September 1991; Academia/industry; PR. 2-1662

Ph.D., 1992 (expected); Biochemistry, molecular genetics, microbiology; Gene subcloning, transformation, DNA plasmid isolation & purification, gene expression, gel electrophoresis, deoxy sequencing, mutagenesis; Avail. April 1992; Postdoc. in academia/industry; Salary negot.; Fl. 2-1664

Ph.D., 1991 (expected); Nutrition; Dietary assessment methods, designing studies evaluating dietary methods, developing and using a nutrient database system, training in gerontology, statistics and research design; Avail. October 1991; Research evaluating dietary status of populations; Salary negot. 5-1666
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 ASMBMB 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 inimmunology 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.

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