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<tr>
<th>Sponsor</th>
<th>Meeting/themes</th>
<th>Deadlines</th>
<th>Location</th>
<th>For additional information</th>
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<tr>
<td></td>
<td>The Cellular and Molecular Biology of Membrane Transport</td>
<td>July 10, 1992&lt;sup&gt;2&lt;/sup&gt;</td>
<td>Orlando, Florida</td>
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<td></td>
<td></td>
<td>May 29-31, 1992</td>
<td>Bethesda, MD 20814</td>
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<tr>
<td>ASPET</td>
<td>Annual Meeting</td>
<td>Orlando, Florida</td>
<td>ASPET National Office 9650 Rockville Pike Bethesda, MD 20814 Phone: 301-530-7060 fax: 301-530-7061</td>
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<td></td>
<td>Mini-theme: Ion Channels and Transporter Pharmacology</td>
<td>August 14-18, 1992</td>
<td>Bethesda, Maryland</td>
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<tr>
<td>AAP</td>
<td>COURSE: Concepts in Molecular Biology</td>
<td>October 29-November 1, 1992</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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<tr>
<td>AIN</td>
<td>XV International Congress of Nutrition</td>
<td>Adelaide, Australia</td>
<td>CSIRO Division of Human Nutrition P. O. Box 10041 Gouger Street Adelaide SA 5000 Australia</td>
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<td>September 26-October 1, 1993</td>
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<tr>
<td>AAI</td>
<td>8th International Congress of Immunology</td>
<td>January 31, 1992&lt;sup&gt;2, 4, 14&lt;/sup&gt;</td>
<td>Budapest, Hungary</td>
<td>Secretariat 8th International Congress c/o IPV/INTERCONGRESS H-1068 Dózsa, Győry út 84/a Hungary</td>
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<td>AAI Annual Meeting</td>
<td>Denver, Colorado</td>
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<td>ASCB</td>
<td>ASCB 92nd Annual Meeting</td>
<td>Denver, Colorado</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>November 15-19, 1992</td>
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<td>FASEB</td>
<td>The FASEB Meeting</td>
<td>February 3, 1992&lt;sup&gt;2&lt;/sup&gt;</td>
<td>Anaheim, California</td>
<td>FASEB Office of Scientific Meetings Bethesda, MD 20814 Phone: 301-530-7010 fax: 301-530-7014</td>
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<td>(APS, ASPET, AAP, AIN, AAI)</td>
<td>March 3, 1992&lt;sup&gt;4&lt;/sup&gt;</td>
<td>New Orleans, Louisiana</td>
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<td>The FASEB Meeting</td>
<td>March 28-April 2, 1993</td>
<td>New Orleans, Louisiana</td>
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<td>(APS, ASPET, AAP, AIN)</td>
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*a Abstracts  r Advance Registration  h Housing*
A comprehensive calendar is published 4 times a year (January, April, July, and October); new listings appear in other months. The calendar lists open meetings of a biological topic: conferences, symposia, courses, and workshops. To have your event listed, please include the date and year of the meeting, its title and location, and a contact name and address and send the information to Calendar Editor, The FASEB Journal, 9650 Rockville Pike, Bethesda, MD 20814, USA.


19-24 January 1992. SPIE International Symposium on Laser Spectroscopy, Los Angeles, California, USA. (SPIE, P.O. Box 10, Bellingham, WA 98227, USA)


14-16 February 1992. Fourth International Conference on Lymphocyte Activation and Immune Regulation: Cellular Communications, Newport Beach, California, USA. (Conference Secretariat, Div. of Basic and Clinical Immunology, Med. Science 1, C-264A, U. of Calif., Irvine, CA 92717, USA)

14-18 February 1992. Syncope, Park City, Utah, USA. (U. of Utah Sch. of Med, Ofc. of Continuing Medical Ed., Salt Lake City, UT 84132, USA)


26-27 February 1992. Transgenic Disease Models, San Diego, California, USA. (IBC USA Conferences, Inc., 8 Pleasant St., Bldg. D, S. Natik, MA 01760, USA)


27-29 February 1992. 1992 Zimmerman Conference: Progress in Vascular Biology, Hemostasis and Thrombosis, La Jolla, California, USA. (Dept. of Academic Affairs, 403C, Scripps Clinic and Research Fdn., 10666 N. Torrey Pines Rd., La Jolla, CA 92037, USA)


29 February-4 March 1992. Third International Congress on Essential Fatty Acids and Eicosanoids, Adelaide, Australia. (A. J. Sinclair, KMIT, P.O. Box 2476 V, Melbourne 3001 Australia)


4-6 March 1992. Third International Symposium on Plasma high Density Lipoproteins and Atherosclerosis, San Antonio, Texas, USA. (American Heart Association, Scientific and Corporate Mgs., 7320 Green- ville Ave., Dallas, TX 75231, USA)

5-7 March 1992. Seventh International Conference on Monoclonal Antibody Immunocojugates for Cancer, San Diego, California, USA. (C. Jones, Professional Conference Management, Inc., 9794 Con- voy Court, San Diego, CA 92111, USA)


22-25 March 1992. Extended Clinical Consulting by Hospital Computer Networks, Boston, Massachussets, USA. (The Conference Dept., NYAS, 2 East 63rd St., New York, NY 10021, USA)


23-26 March 1992. 11th Joint Meeting of British En- doctrine Societies, Harrogate, United Kingdom. (Ad- ministrative Officer, Society for Endocrinology, 17/18 North Court, The Courtyard, Woodlands, Almonds- bury, Bristol BS2 4NQ, UK)

24-26 March 1992. Second International Conference on Human Antibodies and Hybridomas, Cambridge, UK. (S. Patterson, Butterworth-Heinemann, 80 Montvale Ave., Stoneham, MA 02180, USA)


5-9 April 1992. The FASEB Meeting, Anaheim, California, USA. (FASEB Office of Scientific Mgmt., 9650 Rockville Pk., Bethesda, MD 20814, USA)

14-16 April 1992. In Vitro Toxicology: 10th Anniversary Symposium of CAAT, Baltimore, Maryland, USA. (Office of Continuing Education, Johns Hopkins Health Institutions, Turner 20, 720 Rutland Ave., Baltimore, MD 21205-2195, USA)


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


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

24-25 April 1992. Aspects of Peroxidized Lipid Metabolism, Oslo Norway (The Secretariat, G. Lambersen, Breistolen 1, N-3035 Bergen, Norway)

25-29 April 1992. 6th Conference for Food Protection, Baltimore, Maryland, USA. (L. Townsend, Conference for Food Protection, 10 Tecumseh Trail, Frankfort, KY 40601, USA)

28 April-1 May 1992. Clinical Flow Cytometry, Baltimore, Maryland, USA. (The Conference Dept., NYAS, 2 East 63rd St., New York, NY 10021, USA)


1-2 May 1992. 2nd International Symposium on Thrombolytic Therapy in Acute Ischemic Stroke, La Jolla, California, USA. (Office of Academic Affairs, Box 403C, Scripps Clinic and Research Foundn., 10666 N. Torrey Pines Rd., La Jolla, CA 92037, USA)

4-7 May 1992. The American Pediatric Society, The Society for Pediatric Research, and The Ambulatory Pediatric Association, Baltimore, Maryland, USA. (AAPS/SPR Association Headquarters, 141 Northwest Point Blvd., P. O. Box 675, Elk Grove Village, IL 60009-0675, USA)

6-8 May 1992. 6th Annual Seminar on Analytical Biotechnology, Cambridge, Massachusetts, USA. (Barr Enterprises, P. O. Box 279, Walkersville, MD 21793, USA)


10-14 May 1992. International Society for Fat Research and the American Oil Chemists' Society, Toronto, Canada. (Mtg. Dept., AOCS, P. O. Box 3489, Champaign, IL 61826-3489, USA)

11-13 May 1992. Botulinum and Tetanus Neurotoxins: International Conference on Neurotransmission and Biomedical Aspects, Madison, Wisconsin, USA. (R. R. Dagaupua, Dept. of Food Microbiology and Toxicology, U. of Wisconsin, 235 Willow Dr., Madison, WI 53706, USA)


13-16 May 1992. XI International Symposium on Drugs Affecting Lipid Metabolism, Florence, Italy. (F. G. Lorenzini, Via Monte Napoleon 23, 20122 Mi- lano, Italy)

13-16 May 1992. 25th Annual Lofstrand Conference on Arterial Wall Metabolism, Boston, Massachusetts, USA. (Dept. of Continuing Medical Ed., Boston U. Sch. of Med., 80 East Concord St., Boston, MA 02118, USA)

28-30 July 1992. 8th International Cholinergic Sym- 
posium, 'Cholinergic Neurotransmission: Function and Dysfunction', Montreal, Quebec, Canada. (A. C. Cueto, Dept of Pharmacology and Therapeutics, McGill U., 6555 Drummond St., Montreal, Quebec, Canada H3G 1Y6) 
26-31 July 1992. 7th International Symposium on 
Molecular Recognition and Inclusion, Kyoto, Japan. (H. Goshi, Dept. of Synthetic Chemistry, Kyoto U., Sakyoku-Kyo, Kyoto 606, Japan) 
26-31 July 1992. Fifth International Congress for 
Cell Biology, Madrid, Spain. (F. J. Medina, Sec. Gen., Fifth International Congress for Cell Biology, Centro de Investigaciones Biologicas, Velazquez 144, 28006 Madrid, Spain) 
27-31 July 1992. 8th International Conference on 
Prostaglandins and Related Compounds, Montreal, Qu'2-82-bc, Canada. (Coplanor Congres Inc., 51 Place d'Armes, Ste. 600, Montreal, Qu'2-82-bc, H2Y 2W7 Canada) 
2-7 August 1992. VIth International Conference on 
The Biology and Pathogenesis of Free-Living 
Amebae, Richmond, Virginia, USA (F. Macciano- 
Cabrera, Conference Organizer: Medical Coll. of Vir- 
ginia, Dept. of Microbiology and Immunology. 
Box 678, Richmond, VA 23298-6678, USA) 
3-8 August 1992. 8th International Conference on 
Second Messengers and Phosphoproteins, Glasgow, 
Scotland. (P.R.M. Dobson, Inst. of Endocrinology, 
Dept. of Human Metabolism and Clin. Biochem., 
Sheffield U. Med. Sch., Beech Hill Rd., Sheffield, S10 2RX, UK) 
9-14 August 1992. XVII International Symposium on 
Macrocyclic Chemistry, Provo, Utah, USA. (XVII 
ISMC Information, R. M. Izatt, Chemistry Dept. 
ISMC, 226 ESC, Brigham Young U., Provo, UT 84602, USA) 
Dublin, Ireland. (T. Mantle, Dept. of Biochemistry, 
Trinity Coll., U. of Dublin, Dublin 2, Ireland) 
14-18 August 1992. ASPET Annual Meeting: 
Ion Channels and Transporter Pharmacology, Orlando, 
Florida, USA. (ASPET Natl. O.of, 9650 Rockville Pk., 
Bethesda, MD 20814, USA) 
on Calcium-Binding Proteins in Health and Dise- 
ea, Davos, Switzerland. (Inst. of Biochemistry III, 
Universitatstr. 16, ETH-Zentrum, CH-8092 Zurich, 
Switzerland) 
23-29 August 1992. 8th International Congress of 
Immunology, Budapest, Hungary. (c/o IP/INTER- 
CONGRESS, H-1068 Budapest, Dzsa Gy. -A3-t 84/A, 
Hungary) 
30 August-4 September 1992. 9th International 
Congress of Histology and Cytochemistry, Maa- 
stricht, The Netherlands. (MECC/Histochemistry 92, 
P. O. Box 1830, 6501 BP Maastricht, The Netherlands) 
30 August-4 September 1992. IXth International 
Congress on Photosynthesis, Nagoya, Japan. (N. 
Murata, Natl. Inst. for Basic Biology, Okazaki 444, 
Japan) 
1-5 September 1992. 9th International Symposium on 
Gastrointestinal Hormones, Leuven, Belgium. (T. 
Peters, Gut Hormone Lab, Gastroheurig Bon, B-3000 
Leuven, Belgium) 
6-9 September 1992. Satellite Symposium of the IXth 
International Congress of Endocrinology: Melato- 
nin and the Pineal Gland: From Science to Clini- 
cal Application, Paris, France. (Y. Touitou, Dept. of 
Biochemistry, Faculty of Medicine Pitié-Salpêtrière, 
91 boulevard de l'Hôpital 75013 Paris, France) 
7-9 September 1992. Endocrinology Under 35, 
Rapallo, Italy. (A. De Bellis, Dept. of Clinical Phys- 
iotherapy, Endocrinology Unit, U. of Florence, Viale 
Pieraccini, 6, 50139 Florence, Italy) 
7-10 September 1992. European Lipoprotein Club, 
Tutzing, Germany. (M. Roseneu, Dept. of Clinical 
Biochemistry, A. Z. St. Jan, Ruddenrhe 10, B 8000 
Brugge, Belgium) 
9-13 September 1992. International Conference: 
Drugs of Abuse, Immunomodulation and Disease (AIDS), Tucson, Arizona, USA. (R. R. Watson, Al- 
cohol Res. Ctr., Dept. Family & Community Med., 
U. of Arizona, Tucson, AS 85724, USA) 
10-13 September 1992. Society of General Physiolo- 
gists 46th Annual Symposium: Molecular and Func- 
tional Aspects of Carrier-Mediated Transport, 
Woods Hole, Massachusetts, USA. (J. Leighton, SGP, 
Box 257, Woods Hole, MA 02543, USA) 
13-16 September 1992. Food and Cancer Prevention 
92: Chemical and Biological Aspects of Dietary Ant- 
carcinogens and Antimutagens, Norwich, United 
Kingdom. (Food and Cancer Prevention 92, AFRF 
Inst. of Food Research, Norwich Research Park, 
Colney, Norwich, UK NR 4 7UA) 
14-18 September 1992. 8th Colloque International de 
Biologie Prospective, Metz, France. (Biologie Prospective, B. P. 902, F-54005 Nancy Cedex, France) 
17-19 September 1992. Fourth Conference on Radi- 
ioimmunoassay and Radioimmunotherapy of 
Cancer, Princeton, New Jersey, USA. (L. Gillespie, 
Ctr. for Molecular Medicine and Immunology, One 
Bruce St., Newark, NJ 08043, USA) 
20-23 September 1992. First International Conference 
on Dietary Assessment Methods, St. Paul, Min- 
essota, USA. (Dept. of Professional Development and 
Conference Services, 210 Nolte Ctr., 315 Fillibury Dr., 
SE, U. of Minnesota, Minneapolis, MN 55455-0319, 
USA) 
20-24 September 1992. 6th International Conference of 
the Inflammation Research Association, White 
Haven, Pennsylvania, USA. (J. M. Chapdelaine, IRA 
Conference, Pharmakon Rch. International, Inc., P. 
O. Box 609, Waverly, PA 18471, USA) 
22-26 September 1992. 4th International Congress on 
Platelet-activating Factor and Related Lipid Medi- 
ators, Snowbird, Utah, USA. (S. Prescott, CVRTI, 
Bldg. 500, U. of Utah, Salt Lake City, Utah 84112, 
USA) 
Biology of Exercise, Colorado Springs, Colorado, 
USA. (M. Frank, APS, 9650 Rockville Pk., Bethesda, MD 20814, USA) 
27 September-2 October 1992. Seventh International 
Congress of the Pan American Association of Bio- 
chemical Societies, Ixtapa, Mexico (PAABS VII 
U.S.Secretariat Office, School of Basic Life Sciences, 
U. of Missouri-Kansas City, Kansas City, MO 64101, 
USA) 
1-5 October 1992. 2nd Suncoast Biotech Conference, 
Tampa, Florida, USA. (S. Rogers Moore, Coll. of 
Arts and Sciences, U. of Florida, SC 464, 
Tampa, FL 33620-5500, USA) 
16-18 October 1992. 1992 Annual Fall Meeting of the 
Biomedical Engineering Society Perspectives and 
Opportunities in Bioengineering, Salt Lake 
City, Utah, USA. (L. Twiggel, Dept. of Biomedical 
Engineering, 2480 Merrill Engineering Bldg., U. of 
Salt Lake City, UT 84112, USA) 
17-18 October 1992. Ocular Cell and Molecular Bio- 
logy Symposium, Dallas, Texas, USA. (S. Wilson, 
Dept. of Ophthalmology, U. of Texas Southwestern 
Med. Ctr., 3523 Harry Hines Blvd., Dallas, TX 75235, USA)
Courses and Workshop

*3-7 February 1992. American Oil Chemists' Society: 'Unit Operations of Edible Fats and Oils Processing', New Orleans, Louisiana, USA. (AOCS Education Dept., P. O. Box 3489, Champaign, IL 61826-3489, USA)


27 February-1 March 1992. 8th Texas Anesthesia Conference for Obstetrics Plus Pediatrics, Houston, Texas, USA. (C. 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. (R. A. Weeks, Dept. of Materials Science & Engineering, P. O. Box 6007-B, Vanderbilt U., Nashville, TN 37235, USA)


SOCIETY OF GENERAL PHYSIOLOGISTS
1992 FALL SYMPOSIUM

MOLECULAR BIOLOGY AND FUNCTION OF CARRIER PROTEINS

September 10-13, 1992 Woods Hole, MA

Organized by:
Luis Reuss
John M. Russell, Jr.
Michael L. Jennings
University of Texas Medical Branch

Registration and abstract information is available from:
Society of General Physiologists
P. O. Box 257
Woods Hole, MA 02543, USA

Tel: 508-540-6719 FAX: 508-540-0155
1992 FASEB SUMMER RESEARCH CONFERENCES

Snowmass, Colorado


MINORITY INSTITUTION FACULTY AWARDS

The Federation has a limited number of travel awards available for attendance at the FASEB Summer Research Conferences. Awards cover travel and registration fees of eligible scientists who are invited to attend. This program is funded through a grant to FASEB from the NIGMS Minority Access to Research Careers Program. Faculty members at U.S. Institutions whose enrollment are predominantly drawn from ethnic minorities are eligible to apply. To receive complete conference schedules and application form, as well as the MARC Program Award application, mail or FAX this form to:

MARC SRC Awards
Life Sciences Research Office
9650 Rockville Pike
Bethesda, MD 20814-3998
FAX 301-571-1876

Name ________________________________
Institutional Address ________________________________
City __________________________ State __________ Zip Code __________
Future Supplements to AJCN

December 1991

Ascorbic Acid: Biological Functions and Relation to Cancer, sponsored by the National Cancer Institute and the National Institute of Diabetes and Digestive and Kidney Diseases of the National Institutes of Health.

January 1992


February 1992

Consensus Conference on Gastrointestinal Surgery for Severe Obesity, sponsored by the National Institute of Diabetes and Digestive and Kidney Diseases and the Office of Medical Applications of Research of the National Institutes of Health.

Single copies of the above supplements can be obtained from The American Journal of Clinical Nutrition, PO Box 64025, Baltimore, MD 21202.

Cost $35.00 plus shipping and handling: $5.00 domestic or $10.00 foreign and Canada

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The FASEB Journal
Information for Authors*

The FASEB Journal (FJ) is the official publication of the Federation of American Societies for Experimental Biology (FASEB). FJ publishes two types of articles: 1) brief, definitive, and essentially final research communications of fundamental interest and significance that are considered to warrant prompt publication; and 2) state-of-the-art reviews, drawn, as far as possible, from the topics of the FASEB symposia.

Manuscripts containing original communications, or proposals for reviews, should be sent to the Editor-in-Chief, Dr. W. J. Whelan, The FASEB Journal, P.O. Box 016129, Miami, FL 33101-6129, USA.

Original Research Communications

FJ devotes a major portion of its pages (outside the meeting abstracts) to the publication of brief, definitive, original, and essentially final research communications that are considered to warrant prompt publication.

The aim of FJ is to illustrate the unity of biology and the interdependence of its constituent disciplines. Therefore, in keeping with this policy, and to qualify for acceptance, an original communication must not only be of outstanding scientific quality but must also be of fundamental interest.

The subjective scope of FJ is illustrated by the following disciplinary areas: biochemistry, biophysics, cell biology, developmental biology, genetics, immunology, neurobiology, nutrition, pathology, pharmacology, and physiology.

Papers should begin with an abstract written for the general reader and be free from jargon. They should continue with an introduction followed by the results and discussion; they should conclude with a succinct bibliography. Methods may be included within the figure legends and tables or as a separate section. Papers may not occupy more than five printed pages (equivalent of 5000 words and inclusive of illustrations and diagrams) and will be returned as unacceptable if they exceed this limitation.

Papers (an original and four copies) should be sent to the Editor-in-Chief. Prompt publication of acceptable papers will be ensured by careful conformity to the instructions to contributors and the expeditious return of proofs.

State-of-the-Art Reviews

FJ also presents research reviews. Heretofore these have been in the form of extended reports emanating from symposia or mini-symposia presented at FASEB meetings. To provide such research summaries in a more compact form and thereby to allow, within space limitations, a more comprehensive and representative survey of the acquisition of new biological knowledge, FJ publishes state-of-the-art reviews that emphasize interdisciplinary aspects of the growing points of research.

These reviews will serve as a window on topics addressed at Society-sponsored symposia or plenary lectures. Therefore, review authors are sought from among those engaged in organizing the symposia. At the same time, volunteered reviews are welcomed that embody the principles of timeliness, topicality, and broad interest.

A proposal for such a review, not a completed review, should be sent to the Editor-in-Chief, who will advise on its acceptability.

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Authors will be asked to certify that an original communication has not been published otherwise as an abstract and is not being considered for publication elsewhere, and that the paper will not be submitted for publication elsewhere until its acceptability for FJ has been decided. Authors of reviews will be asked to certify that the review has not been published, is not being considered elsewhere, and will not be submitted elsewhere until its acceptability for FJ has been decided.

Style of Manuscript

General Instructions

1) Manuscripts should be typewritten, with double spacing and 1-inch margins, on 8½ × 11 inch bond paper. Computer printouts of manuscripts must be readable; a dot-matrix printer is generally unacceptable. Metric units should be used. An original and four copies, with figures and tables, should be submitted to the Editor-in-Chief. Pages should be arranged and numbered consecutively in the following order: title page, footnotes, abstract of up to 200 words and indexing key words (maximum of five), text, references (double-spaced), figure legends, tables, and illustrations.

2) The title page should show: title of article; author(s); laboratory or institution of origin with city and state or country; complete address for mailing proofs and telephone and fax numbers for corresponding author; and shortened title (maximum of 50 characters and spaces) for the running foot.

3) The title should be brief (no more than 90 characters, including letters, spaces, and punctuation) and informative. Do not use phrases in which more than three words modify another word (use "mRNA homodynamic effects of atrial natriuretic factor" rather than "Atrial natriuretic factor mRNA homodynamic effects"). Serial titles, such as "Interferon, IX," are not permitted, except as a footnote.

4) The abstract, a paragraph of no more than 200 words, should be written for the general readership and be free from jargon. It should be self-explanatory and suitable for use by abstracting services without rewriting. It should state the purpose and major findings and conclusions of the study. Citation of references should be avoided; if used, include bibliographic information.

5) Footnotes, double-spaced, should be assembled on one or more separate sheets; they should be numbered consecutively throughout.

6) The text should be readable, clear, and concise. Any corrections should be neat and legible. Standard nomenclature should be used; unfamiliar or new items should be defined at first mention. (See Abbreviations section below.) Foreign words not in general use in the English language should be underlined for italic type; italics should not be used for emphasis. Latin plurals should not be used if the English equivalent has been accepted, e.g., lamellae, not lamellae. "New words should be followed for spelling, compoundng, and word separation.

7) Drugs and trade names. The chemical or generic name should precede the abbreviation of a drug name the first time it appears. Proprietary (trademarked) names should be capitalized and the spelling carefully checked. Trade names of chemicals or equipment should also be capitalized. Authors should supply an acceptable scientific name in every case as an alternative to the trade name. Trade names should not ordinarily be used in titles.

8) Active voice rather than passive voice should be used whenever possible. Present tense is used for references to existing knowledge or accepted concepts, and for proven conclusions from the present work; past tense is used when describing experimental work on which the paper is based.

Abbreviations, Symbols, and Terminology

Each author must include, as a footnote to the first page of text, a list of any new or special abbreviations used in the paper, with the spelled-out form and definition if necessary for clarity. For information on style in general, authors are referred to the CBE Style Manual, 5th ed. (1983), prepared by the CBE Style Manual Committee (Bethesda, MD). Chemical and biochemical terms and abbreviations should be in accordance with the recommendations for usage by the International Union of Pure and Applied Chemistry (IUPAC), the International Union of Biochemistry (IUB), and their Committee on Nomenclature [see Biochemical Nomen-

The following abbreviations or acronyms may be used without explanation; others should be defined at first use in the text.

A  ampere; blood group; chromosome group
A  absorbance; area
a  ångström
a  acceleration; activity, relative
AB  blood group
ac  alternating current
A· h  ampere-hour
AMP, ADP, ATP  adenosine phosphates
AMPase, ADPase, ATPase  adenosine phosphates
aq, atm  aqueous, standard atmosphere
at. wt  atomic weight
BCG  bacille Calmette-Guérin
bp  boiling point
Bq  becquerel
Btu  British thermal unit
C  coulomb
°C  Celsius
c  centimeter
ca.  about
cal  calorie
cAMP, cGMP, etc.  cyclic AMP, cyclic GMP, etc.
CD  circular dichroism
cd  candela
cDNA  complementary DNA
cf  compare
Ci  curie
cm, cm2, cm3  centimeters
CMP, CDP, CTP  cytidine phosphates
CoA  coenzyme A
CoASAc  acetyl coenzyme A
cpm  counts per minute
cps  counts per second
cp  centipoise
c/s  cycles per second
cRNA  complementary RNA
cubic  use exponent 3
d  degree, angle
D  diffusion, coefficient
d  dextro configuration
d  density
d, (+)  dextrorotatory
Da  dalton
da  deca-
dB  decibel
dc  direct current
DDT  1,1,1-trichloro-2,2-bis-(p-chlorophenyl)ethane
DEAE-cellulose  O-(diethylaminoethyl)cellulose
df  DNA
DNase  disintegrations per minute
dp, dpm, dps  disintegrations per second
DTP, dTMP, dTDP, dTTP  dyn
E  electron volt
EC50  effective concentration, 50%
ed.  editor
ED50  effective dose, 50%
EDTA  ethylenediaminetetraacetic acid
eg.  for example
EGTA  ethylene glycol bis(β-aminoethyl ether)N,N,N′,N′-tetraacetic acid
emf  electromotive force
EPR  electron paramagnetic resonance
eq, Eqs.  equation(s)
eq  equivalent
ESR  electron spin resonance
exp  exponential
F  farad; filial generations
°F  Fahrenheit
femto-  flavin adenine dinucleotides
fc  foot-candle
Fig., Figs.  figure(s)
FMN, FMNH  flavin mononucleotides
fp  freezing point
ft  foot
ft lb  foot-pound
G  gauss; general; giga-
g  gravitational constant
g  guanosine phosphates
GMP, GDP, GTP  greater than
GSH, GSSG  glutathiones
H  henry
h  hecto-; hour
Hb  hemoglobin
hRNA  heterogeneous nuclear RNA
hp  horsepower
Hz  hertz
IC50  inhibitory concentration, 50%
ID50  infective dose, 50%
i.d.  inside diameter
i.e.,  that is
Ig  immunoglobulin
i.m.  intramuscular
IMP, IDP, ITP  inosine phosphates
i.p.  inch
IR  intraperitoneal
IU  infrared
i.v.  international unit
joule
Jr.  junior, with names
K  Kelvin
Km  Michaelis constant
kilo-  kilo-
kcal  kilocalorie
km  kilometer
k  levo configuration
lb  pound
lb/in2  pounds per square inch
LD50  lethal concentration, 50%
LD0  lethal dose, 50%
<
ln
log
lx
M
M_r
M_r
m
m^2, m^3
mA
max
meq
mg
mi
min
mi/h
ml
ml/min
mm, mm^2, mm^3
mm Hg
mol
mol wt
mosmol
mp
m/s
mRNA
ms
mtDNA
mtRNA
μ
μeq
μg
μl
μM
μm
μmol
MW · h
x 300
N
N
n
nA
NAD, NAD+
NAPH, NADP+
NADPH, NADPH+
nDNA
nRNA
nm
NMN
NMR
n, n
N/m^2
Ω
o
o.d.
osmol
oz
P
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P_i
pico
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P_i
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PP_i
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Q_0
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rad
ref
Rh
RNA
RNase
rpm
rps
rRNA
S
SD
SE
SEM
sp, spp.
sp gr
square
STP
Sv
T
t
t_{1/2}
ter
TMP, TDP, TTP
Tris
tRNA
U
uhf
UMP, UDP, UTP
UV
V
V
vol/vol
 versus
W
Wb
W · h
wk
wt
wt/vol
wt/wt
x
XMP, XDP, XTP
yd
yr

Note: standard three-letter or single-letter abbreviations for amino acids may be used in sequences and in tables and figures.

References

References should be cited in the text in numerical order, with the numeral placed in parentheses. References should be typed separately with inclusive pages and titles, double-spaced, with one reference per number. Authors are responsible for the accuracy and completeness of their references; they will not be checked in the Editorial Office.

Citations to unpublished work should not be entered into the list of references unless the paper has been accepted for publication. Include them in the text as "(unpublished observations)" or "(personal communications)," with authors' initials and surnames.

For titles of journals, follow the abbreviations listed in Serial Sources for the BIOSIS Data Base. The form of references to periodicals should be in accordance with the following example. (Titles and inclusive pages must be used.)

Book references should include information in the following order: author(s), year of publication, title, city of publication, publisher, and pages. The title of the book should be underlined for italic type. When one chapter is cited its title and page numbers should be included, and the book's authors or editors should be named.


Illustrations

Illustrations should be identified lightly with pencil on the reverse side with the figure number and author name(s); when necessary, the top should be clearly marked. They should be referred to as figures in the text, and should be numbered with Arabic numerals; each should have a legend.

When preparing figures, particularly graphs, authors might follow the suggestions of H. G. Hers (Nature 307: 205, 1984). They are included in the following:

1) Illustrations should be sharp, contrasty, unmounted photographs on glossy paper. Photographs should be the width of one column (3 1/4 inches) or two columns (7 1/4 inches). All drawings for reduction to a given size should be drawn and lettered to the same scale.

2) Lettering should be in black ink and must be legible after reduction (i.e., at least 1.5 mm high). The smallest elements (subscripts or superscripts) should be readable when reduced. Type-written or computer-generated lettering is not preferred.

3) Graphs such as electrocardiograms, kymograms, and oscillograms should be prepared so that the dark cross-hatched background is eliminated, the faint portions of the graphs are intensified, and sharp prints are obtained. To avoid this processing, use blue ruling instead of black-ruling recording paper for the original records.

4) A figure containing several panels with the same axes, usually denoted a, b, etc. authors should indicate on each panel its experimental specificity and should label axes as precisely as possible: e.g., 'Time after drug additions rather than 'Time'. Also, express results in mol rather than ppm or absorbance units. If results are given in percent, define 100% in standard units in the legend.

5) When possible, all lettering should be within the framework of the figure; likewise the key to symbols should be on the face of the chart. Use one symbol for the same experimental conditions in all comparable figures in the article. When the figure is so filled that it is necessary to explain symbols in the legend, only these standard characters should be used: □ ■ ○ ● △ ▽ ▼ ◀ ◁.

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Tables should not duplicate material in text or illustrations. They should be prepared for printing either 3½ or 7½ inches wide. Nonsignificant figures in tabular data should be omitted. Short or abbreviated column heads should be used. Statistical measures of variation, P or S, etc., should be identified in as such.

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Structural chemical formulas, process flow diagrams, and complicated mathematical expressions should be precisely and carefully arranged, but they should be kept to a minimum because in type-setting they are composed by hand and are expensive. Glossy prints of complicated formulas and expressions suitable as line drawings are preferred. All subscripts, superscripts, Greek letters, and unusual characters must be clearly identified.

Acknowledgments

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

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CHAIRPERSON. The College of Medicine of Howard University invites applications and nominations for the position of Chairperson of the Department of Pharmacology. The candidate should possess Ph.D. in pharmacology or M.D. with research expertise in molecular biology and pharmacology. Applicants should have experience in teaching and administration. The Department of Pharmacology is responsible for educational programs for medical, dental, pharmacy and graduate students. The department has strong research programs in several specialty areas of pharmacology. Nominations and applications should be received before April 30, 1992. Women and minorities are encouraged to apply. Applications consisting of a letter of intent, CV and three references should be sent to Allen R. Rhoads, Ph.D., Chairman of the Pharmacology Search Committee, Department of Biochemistry and Molecular Biology, College of Medicine, Howard University, 520 W Street, NW, Washington, DC 20059. Howard University is an equal opportunity/affirmative action employer.

POSITIONS AVAILABLE

HUMAN GENOME POSTDOCTORAL FELLOWSHIPS, U.S. Department of Energy. The Human Genome Postdoctoral Fellowships provide opportunities to conduct research related to the U.S. Department of Energy's Human Genome Program. This program's goal is to develop the tools, technologies and resources required to efficiently decipher the molecular nature of the human genome. Research areas include molecular biology, computational biology and technology development. Stipend is $35,000. Fellowships are tenable at approved DOE and university laboratories. A doctoral degree received after May 1, 1989, is required as is U.S. citizenship or PR status. Deadline is February 1, 1992. Contact Human Genome Postdoctoral Fellowships, Science/Engineering Education Division, Oak Ridge Associated Universities, P.O. Box 117, Oak Ridge, TN 37831-0117 (615) 576-4805.

POSTDOCTORAL FELLOWSHIPS in gastroenterological research available for two or more years beginning 1992. Faculty employs multidisciplinary approach using biochemical, cell/molecular biological, immunological, physiological and electrophysiological techniques. Applicant may focus on clinical and/or basic studies. Applicants should have M.D. or Ph.D. and must be a U.S. citizen or have permanent visa status. Send CV and names of three references to N. F. LaRusso, M.D., Program Director, NIH Training Grant, Mayo Clinic, Rochester, MN 55905. Mayo Foundation is an affirmative action and equal opportunity educator and employer.

POSTDOCTORAL FELLOWSHIPS. Study central neural control of the circulation in the Cardiovascular Center at the University of Iowa. Candidates must have recently completed a Ph.D., must have experience with single cell recording techniques and must be eligible for NIH training grant support. Background in neuropharmacology and/or neuroanatomy desirable. Fellows will participate in studies of the role of central neurons in the baroreflex control of blood pressure in hypertension. Send CV to Dr. Robert Felder, Department of Internal Medicine, University of Iowa College of Medicine, Iowa City, IA 52242. AA/EOE.
1992 AAAS Environmental Science & Engineering Fellowship Program

Fellows work as special research consultants with the Office of Research and Development (ORD) of the U.S. Environmental Protection Agency for ten weeks in the summer. The detailed, future-oriented research assists ORD in assessing the significance of long-range environmental problems. The stipend is $900 a week. Applicants must be postdoctoral to midcareer professionals, show exceptional competence in a relevant professional area, and be permanent residents of the United States. Persons may apply from any physical, biological, or social science and any field of engineering. Ten Fellows will be selected.

For additional program information and application instructions, contact:
Environmental Science & Engineering Fellowship Program
Directorate for Science and Policy Programs
American Association for the Advancement of Science
1333 H Street, NW, Washington, DC 20005
202/326-6600

CHAIRPERSON
DEPARTMENT OF PHYSIOLOGY
SCHOOL OF MEDICINE
UNIVERSITY OF NORTH DAKOTA

We invite applications from individuals holding Ph.D. and/or M.D. with an outstanding record of extramurally funded research, a strong teaching record and enthusiasm for medical student and graduate student education. We are seeking candidates from a wide spectrum of disciplines and research areas within physiology. In addition to several strong programs in cellular and molecular biology in the Medical School, opportunities exist for interactions with the USDA Human Nutrition Laboratory and with various aspects of aerospace sciences. The salary for the position will be competitive. Review of applications will begin February 15, 1992 and continue until the position is filled. Interested applicants should send CV, a summary of research goals and at least three letters of reference to:

Dr. Edward C. Carlson, Physiology Search Committee
Chair, Department of Anatomy and Cell Biology
School of Medicine, University of North Dakota
Grand Forks, ND 58202

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Wayne State University

CHAIRPERSON
DEPARTMENT OF NUTRITION AND FOOD SCIENCE

The Department of Nutrition and Food Science, Wayne State University College of Liberal Arts, is seeking a Chairperson to lead its rapidly expanding undergraduate and graduate programs in nutrition, food science and dietetics. Wayne State University, located in the cultural center of Detroit, Michigan, is an urban, comprehensive, research university enrolling 30,000 students. The Department of Nutrition and Food Science has eight faculty and enrolls 100 undergraduate and 65 graduate (Ph.D. and Masters) majors. The department, which moved into completely renovated research and teaching facilities in October, 1991, has ties to the WSU School of Medicine and the Institute of Chemical Toxicology as well as to other departments in the College of Liberal Arts.

Qualifications for the Chairperson's position include an earned doctorate, administrative and teaching experience and an established research program. Applicants should send a letter of application, CV and the names of at least three references to:

Dr. Richard Lintvedt, Chair
Nutrition and Food Science Selection Advisory Committee
123 Chemistry
Wayne State University
Detroit, Michigan 48202

Salary and rank are negotiable. The position is available immediately. For best consideration, please respond before January 30, 1992.

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RESEARCH ASSOCIATE/RESEARCH ASSISTANT PROFESSOR BIOPHYSICS AND ELECTROPHYSIOLOGY

The Living State Physics Group of the Department of Physics and Astronomy at Vanderbilt University has an active research program utilizing magnetic and electric measurements to study electrical activity and action potential propagation in normal and injured nerve and cardiac, smooth and skeletal muscle. We are seeking a biophysicist/electrophysiologist who is willing to conduct experiments at Vanderbilt University during the academic year and at the Marine Biological Laboratory in Woods Hole, Massachusetts, during the summer. Experience in electronics, data acquisition systems and computer programming and mathematical modeling preferred.

Full salary and research support will be provided for two years, with the expectation that after this time sufficient external research funds will have been obtained to establish a nearly-independent research program in biophysics. Salary and rank will be based upon experience and other qualifications. Starting date negotiable. Send CV, representative publications and names and addresses of three references to Dr. John P. Wikswo, A.B. Learned Professor of Living State Physics, Department of Physics and Astronomy, Vanderbilt University, P.O. Box 1807, Station B, Nashville, TN 37235.

Vanderbilt University is an equal opportunity/affirmative action employer.
The Discovery Research Department of the R.W. Johnson Pharmaceutical Research Institute seeks a postdoctoral fellow with a PhD in a science-related field and an interest in central nervous system research.

Candidates should have 0-2 years of research experience, preferably to include behavioral pharmacology and protein purification. The successful candidate will conduct neurochemical and pharmacological research related to the regulation of excitatory amino acid neurotransmitter receptors, and the involvement of these receptors in memory formation and neurodegeneration. Experience with receptor binding techniques and biochemical data analysis required.

The R.W. Johnson Pharmaceutical Research Institute is a world-class R&D organization that was formed in 1968 to integrate worldwide pharmaceutical research efforts for various Johnson & Johnson Companies. By 1991, PRI led the industry with FDA approval of 3 new products — PROCRIT®, FLOXIN®, and VASCOR®.

This 2-year assignment offers a competitive salary and the comprehensive benefits of a Johnson & Johnson Company. Ours is a smoke-free workplace at our campus-like setting in suburban Philadelphia.

Please submit your curriculum vitae and the names of 3 references to: Human Resources Dept. SMK, R.W. Johnson Pharmaceutical Research Institute, Welch & McKean Roads, Spring House, PA 19477

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**DEPARTMENT HEAD BIOCHEMISTRY**

University of Georgia

Nominations and applications are invited for the position of Head of the Department of Biochemistry within the Division of Biological Sciences at the University of Georgia. The Department currently has 30 full-time faculty engaged in a variety of research activities with annual sponsored research exceeding $7M, and strong undergraduate and graduate programs. Recently, the Departments of Biochemistry and Genetics moved into a new 185,000 sq. ft. Life Sciences Building fully equipped for training and research in modern biochemistry.

Candidates should be established investigators with well-funded, active research programs. They should have outstanding records of scholarly contributions, teaching and professional activities. Candidates should also have an appreciation for the demands of administering a complex department. The new Head is expected to develop new programs associated with current and future vacancies and to promote the national and international stature of the Department. Applications received by February 15, 1992, are assured of consideration. Like all positions at the University of Georgia, this position is subject to approval by the Board of Regents of the University System and to budgetary considerations.

Applications with curriculum vitae, a statement of research interests and four letters of recommendation should be sent to:

Dr. Wyatt Anderson
Chair of Search Committee
C/o Department of Biochemistry
University of Georgia
Athens, Georgia 30602

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**FACULTY.** Cornell University, Division of Nutritional Sciences, invites applications for two tenure-track positions in nutritional aspects of mammalian biochemistry/molecular genetics/cell biology. Successful candidates will be expected to develop a strong research program in nutrition suitable for training graduate students, to attract external funding to support this research program and to participate in the division's undergraduate/graduate teaching program. Research programs with relevance to nutritional issues at the molecular, cellular or organismal level expected. Qualifications: Ph.D., M.D. or equivalent doctoral degree; postdoctoral experience and demonstrated potential for outstanding accomplishments in research and teaching. Position available August 1, 1992. Rank and competitive salary commensurate with background and experience. Attractive benefits available. Qualified applicants should submit CV, list of publications, statement of research and teaching interests and names/addresses of three references to Dr. Kathleen M. Rasmussen, Search Committee Chair, Division of Nutritional Sciences, Cornell University, Ithaca, NY 14853-6031. Application deadline is February 28, 1992. AA/EEOE.

**AVIAN BIOLOGIST.** Assistant Professor of Avian Sciences in the Department of Avian Sciences and Assistant Biologist in the Experiment Station, University of California, Davis. Eleven-month, 25% teaching and 75% research, tenure-track position. The successful candidate will be expected to establish an independent, competitive research program in the area of avian physiology, genetics and/or immunology, teach an undergraduate course in avian physiology and a graduate level course in his/her area of research specialization, and train and advise undergraduate, M.S. and Ph.D. students. Candidates should have a Ph.D. in physiology, immunology, genetics or a related area, a solid foundation in areas related to research and teaching and demonstrated research productivity and/or potential. Each applicant should submit CV and transcripts (official transcripts are required if Ph.D. was granted in the past five years) together with a detailed description of his/her research accomplishments and future plans, and three to five names and addresses of individuals familiar with the applicant's teaching and research abilities. Applications should be submitted to Kirk Klasing, Department of Avian Sciences, University of California, Davis, CA 95616-8532. Application deadline is March 1, 1992. The University of California is an equal opportunity/affirmative action employer.
POSTDOCTORAL. Available immediately for immunologist/molecular biologist. Areas of research include the regulation, expression and localization of the Ro and La lupus autoantigens in the skin. Candidates should be experienced in molecular biology techniques. Send CV and names and telephone numbers of three references to Lela A. Lee, M.D., Oklahoma Center for Molecular Medicine, University of Oklahoma Health Sciences Center, P.O. Box 26901, OMRF Mail Stop 24, Oklahoma City, OK 73190. An equal opportunity/affirmative action employer.

POSTDOCTORAL FELLOWSHIP/HEPATOBIILIARY PATHOBIOLOGY. Laboratory research with opportunity to train in liver and G.I. pathology. Purpose of research is to define hepatic mechanisms of intracellular bile salt, organic anion and lipid transport under normal and cholestatic conditions. Please contact Dr. James M. Crawford, Department of Pathology, Brigham & Women's Hospital, 75 Francis Street, Boston, MA 02115 (617) 732-6672 FAX (617) 732-6796. Ph.D. required. An equal opportunity employer, m/f/h.

POSTDOCTORAL. Available immediately to study molecular mechanisms of neuroendocrine effects in developing tissues and their perturbation by maternal deprivation. Send resume and three letters of reference to Dr. Saul Schanberg, Department of Pharmacology, Duke University Medical Center, P.O. Box 3813, Durham, NC 27710. Duke University is an equal opportunity/affirmative action employer.

ENDOWED PROFESSORSHIP/ASSISTANT PROFESSOR. The Nutrition Division is filling two nine-month appointments: 1) The David Bruton Jr. Centennial Professor in Nutrition (Ph.D. or M.D., current status as a full professor with established credentials appropriate for an endowed professor, teaching experience and a demonstrated ability to obtain significant external funding); 2) Assistant Professor (Ph.D. in nutrition or related field). Positions will remain open until filled. Competitive salaries and start-up packages. Send CV and four references to Dr. Jeanne Freeland-Graves, Chairman, Department of Human Ecology, GEA II, The University of Texas at Austin, Austin, TX 78712 (512) 471-6714. EOE/AA.

POSTDOCTORAL/RESEARCH ASSOCIATE. Available immediately at the University of Chicago, Chicago, Illinois, in the field of cardiac mechano-energetics at the whole organ and isolated tissue levels. Specific areas of study include dynamic homology between the whole heart and isolated tissue mechano-energetic behavior and ventricular structure-function correlations. Qualifications include Ph.D., M.D., or equivalent, with a strong background in organ and/or cellular physiology. Experience with isolated heart and/or muscle preparations and quantitative inclination desired. Send CV to or call Dr. Sanjeev G. Shroff, Cardiology Section, University of Chicago Hospitals, MC 5076, 5841 S Maryland Avenue, Chicago, IL 60637 (312) 702-0991. An equal opportunity/affirmative action employer.

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Monoclonal antibodies against DUPAN-2, CEA, nonspecific cross-reacting antigen (NCA), Sialyl Le, SSEA-1, CALLA, and other cancer and cell surface markers are available in a highly purified form for research application. They are excellent tools for cell staining, immunoprecipitation and other research application. Kamiya Biomedical Co., 31360 Via Colinas, Westlake Village, CA 91362, USA.

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Measuring the amount of DNA helps to optimize and standardize electrophoresis and enzymatic reactions including sequencing. The capillary cuvette kit (TKOI30) provides the sensitivity to detect as little as one nanogram of DNA. The kit holds 3 to 9 μl of DNA solution containing DNA-binding dye Hoechst 33258 in a capillary tube between a focusing lens and mirrored surfaces. Together, the capillary cuvette kit and the Mini-Fluorometer provide a sensitive and economical way to measure the DNA concentration of samples, even those containing protein and RNA. Hoefer Scientific Instruments, 654 Minnesota St., San Francisco, CA 94107, USA.

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Accurate Chemical's line of high-precision laboratory pumps can be used for metering very small and very large fluid amounts; the transfer of organic and inorganic solutions, suspensions, low-viscosity slurries, and emulsions; and for the transfer of superfine media. Accurate Chemical & Scientific Corp., 300 Shames Dr., Westbury, NY 11590, USA.

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The flexibility of the super elastic syringe eliminates worries about using or cleaning. The plunger is made of a special Ti-Ni alloy, which will bend and can even be wound into a 16 mm coil, but always springs back and never kinks. The Ti-Ni alloy is stronger and more resistant to acids, alkalis and salt solution than stainless steel. The accuracy and reproducibility of injection is within ±1%. Recommended for thin layer chromatography and for sample injection for GC and HPLC. Midwest Scientific, 228 Meramec Station Rd., P.O. Box 458, Valley Park, MO 63088, USA.

The cDNA ClonStruct™ Kit (Product No. 71580) promotes efficient cloning of full-length cDNAs. The kit comes complete with a vector-primer and all necessary enzymes and reagents to perform five cDNA library constructions. A single library construction requires 10–20 µg of poly A+ RNA. A large, highly representative cDNA library results from following prescribed steps. United States Biochemical Corp., P.O. Box 22400, Cleveland, OH 44122, USA.

Photometrics has a digital, cooled CCD camera system that is integrated with powerful image processing software running under Microsoft Windows 3. The Model ATC200 camera is ideal for applications requiring low-light imaging, low contrast detection, or wide dynamic range providing 12, 14, or 16 bits per pixel over spatial resolutions from 512 × 512 to 2048 × 2048 pixels. Photometrics, 3440 E. Britannia Dr., Tucson, AZ 85706, USA.
Software

Hitachi Software has introduced version 1.0 of MacDNASIS Pro, the company’s DNA and protein sequence analysis software for Apple® Macintosh® computers, which allows the company to offer sequence analysis software for both PC and Mac platforms.

MacDNASIS Pro 1.0 provides comprehensive DNA and protein sequence analyses, including sequence input and editing, primary and secondary structure prediction, “shotgun” fragment connection, restriction mapping, and similarity search/retrieval of genetic information from the GenBank™, EMBL, NBRF-PIR, and SWISS-PROT databases supplied on CD-ROM. Hitachi, Hitachi Plaza, 2000 Sierra Point Pkwy., Brisbane, CA 94005-1819, USA.

The Axxiom chromatography model 717, 727, 737, and 747 data system kits are available for free, no-obligation 30-day trials to qualified laboratories. These workstations will support from one to six detector signal inputs from up to three HPLC or GC instrument(s). Chromatograms are displayed in real time, saved to disk memory, and processed automatically. The 700 series systems can be installed on any PC-XT, AT, 80386, or 80486 computer with at least 640 KB RAM and EGA or VGA graphics.

XIOM Chromatography, Inc., 11988 Challenger Ct., Moorpark, CA 93021-7122, USA.

Your computer and DryLab software can simulate and optimize your HPLC separations in minutes instead of hours. Improve existing applications and develop new ones quickly and accurately. All DryLab programs allow optimizing analysis in only two runs. Simulate changes in temperature, flow rate, and column dimensions to tell at a glance if all your sample components can be separated. Find “extra” bands that may be hiding beneath other peaks. Free demo disks. Phenomenex, Inc., 2320 W. 205th St., Torrance, CA 90501, USA.

Literature

This 72-page specialty catalogue from Millipore includes chemicals for DNA and RNA synthesis, peptide synthesis, protein sequencing, and 2-D electrophoresis, as well as monomers and amino acids, columns and bulk supports, kits, reagents and ancillary supplies for Millipore and other brands of instrumentation. Each section includes a chemistry overview with illustrations and descriptions of the reactions taking place. Millipore, Waters Chromatography Division, 34 Maple St., Milford, MA 01757-3696, USA.

Hamilton’s 80-page, fill-color Product Catalog details a complete line of syringes, HPLC columns, automated pipetting systems, and miniature inert plug valves. Some products are introduced, including: 2700 Series Flexit™ Syringe with a space-age metal plunger that greatly reduces the problem of kinked plungers; Microlab® 500 Diluter/Dispenser with wider volume ranges, easier operation, and lower cost for the automated pipetting user; and PRP-X500 Anion Exchange HPLC Column, which allows fast separation of proteins while maintaining good sample loading capacity. Hamilton Company, P.O. Box 10030, Reno, NV 89520-0012, USA.

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