### SOCIETY EVENTS

<table>
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<tr>
<th>Sponsor</th>
<th>Meeting/ themes</th>
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<tr>
<td>ASPET</td>
<td>Annual Fall Meeting</td>
<td>On-site registration</td>
<td>Milwaukee, Wisconsin</td>
<td>Kay A. Croker</td>
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<td>August 12-15, 1990</td>
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<td>Endothelial Biology (Course)</td>
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<tr>
<td>APS</td>
<td>Annual Fall Meeting</td>
<td>On-site registration</td>
<td>Orlando, Florida</td>
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<td>October 6-10, 1990</td>
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<td>August 1a</td>
<td>Taipei, Taiwan</td>
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<td>Joint Meeting with</td>
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<td>Chinese Physiological Society</td>
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<td>November 2-5, 1990</td>
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<td>AAP</td>
<td>Concepts in Molecular Biology</td>
<td>July 15'</td>
<td>Bethesda, Maryland</td>
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<td>November 1-4, 1990</td>
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<td>ASCB</td>
<td>Annual Meeting</td>
<td>August 1a</td>
<td>San Diego, California</td>
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<td>December 9-13, 1990</td>
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<td>FASEB</td>
<td>Annual Meeting</td>
<td>December 3a</td>
<td>Atlanta, Georgia</td>
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<td>April 21-25, 1991</td>
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<td>Societies</td>
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a Abstracts  r Advance Registration
22-27 July 1990. FASEB Summer Research Conferences: Physiology and Pathophysiology of the Splanchnic Circulation, Copper Mountain, Colorado, USA. (Marilyn Marsh, FASEB Summer Research Conferences, 9650 Rockville Pk., Bethesda, MD 20814, USA)

22-27 July 1990. FASEB Summer Research Conferences: Synthesis and Function of Vitamin K-Dependent Proteins, Saxtons River, Vermont, USA. (Marilyn Marsh, FASEB Summer Research Conferences, 9650 Rockville Pk., Bethesda, MD 20814, USA)


23-27 July 1990. International Union of Pure and Applied Biophysics Satellite Symposium on Expanding Frontiers in Polypeptide and Protein Structures, Whistler, British Columbia, Canada. (Dr. V. Renugopalakrishnan, Enders-12, Orthopedic Research, Children's Hospital, 300 Longwood Ave., Boston, MA 02115, USA)


23-28 July 1990. 8th General Meeting of the European Society for Neurochemistry, Leipzig, GDR. (Prof. D. Biesold, Dept. of Neurochemistry, Karl Marx U., Karl-Marx-Stadt-Str 50, 7035 Leipzig, GDR)

29 July-2 August 1990. 73rd Anniversary Annual Meeting of the Ecological Society of America, Snowbird, Utah, USA. (Dr. Marjorie M. Holland, The Ecological Society of America, Public Affairs Office, 9650 Rockville Pike, Bethesda, MD 20814, USA)

29 July-3 August 1990. 2nd National Medicinal Chemistry Symposium, Austin, Texas, USA. (Dr. Lawrence H. Hurley, U. of Texas at Austin, College of Pharmacy, Drug Dynamics Inst., Austin, TX 78712-0774, USA)

29 July-3 August 1990. 10th International Congress of Biophysics, Vancouver, Canada. (M. L. Forget, Congress Mgr. Nat'l. Research Council Canada, Ottawa, Ontario, Canada K1A 0R6)

29 July-3 August 1990. FASEB Summer Research Conferences: Hepatic Regeneration and Carcinogenesis: Molecular and Cellular Pathways, Copper Mountain, Colorado, USA. (Marilyn Marsh, FASEB Summer Research Conferences, 9650 Rockville Pk., Bethesda, MD 20814, USA)

29 July-3 August 1990. FASEB Summer Research Conferences: Poly Acid, Vitamin B-15, and One Carbon Metabolism, Saxtons River, Vermont, USA. (Marilyn Marsh, FASEB Summer Research Conferences, 9650 Rockville Pk., Bethesda, MD 20814, USA)


30 July-3 August 1990. Gordon Research Conferences: Atomic & Molecular Interactions, Newport, Rhode Island, USA. (H. A. Alexander, U. of Rhode Island, Kingston, RI 02881-0801, USA)

30 July-August 5 1990. 7th International Congress of Immunology, Berlin, FRG. (Dr. H. Kirchner, Deutsches Krebsforschungszentrum, Institut fur Virusforschung, Im Neuenheimer Feld 280, D-6900 Heidelberg, FRG)

4-7 August 1990. International Union of Pure and Applied Biophysics Satellite Meeting on Control of Charge Transfer in Cytochrome and Chlorophyll Complexes, Montreal, Quebec, Canada. (Peter Nicholls, Dept. of Biological Sciences, Brock U., St. Catharines, Ontario, Canada L2S 3A1)

5-10 August 1990. The Symposium for Innovation in Measurement Science, Geneva, New York. (Dan Shellhammer, USA, 67 Alexander Drive, PO. Box 12777, Research Triangle Park, NC 27709, USA)

5-10 August 1990. FASEB Summer Research Conferences: Protein Phosphatases, Copper Mountain, Colorado, USA. (Marilyn Marsh, FASEB Summer Research Conferences, 9650 Rockville Pk., Bethesda, MD 20814, USA)

5-10 August 1990. FASEB Summer Research Conferences: Yeast Chromosome Structure, Replication, and Segregation, Saxtons River, Vermont, USA. (Marilyn Marsh, FASEB Summer Research Conferences, 9650 Rockville Pk., Bethesda, MD 20814, USA)

5-10 August 1990. Third International Vasopressin Conference, Montpellier, France. (Dr. Rex L. Jamison, U. of Rochester Sch. of Med. and Dentistry, 601 Elmwood Ave., PO. Box MED, Rochester, NY 14624, USA)


6-11 August 1990. Ninth Pfefferkorn Conference on Science of Biological Specimen Preparation for Microscopy and Microanalysis, Santa Cruz, California, USA. (Dr. Janet K. Boyles, U. California, Gladstone Foundation Labs., PO. Box 40608, San Francisco, CA 94140, USA)

6-17 August 1990. NATO Advanced Study Institute on Biological Signal Transduction, Spetsai, Greece. (Dr. Elliot M. Ross, Dept. of Pharmacology, U. of Texas Southwestern Med. Ctr., 3323 Harry Hines Blvd., Dallas, TX 75235, USA)

8-11 August 1990. Scientific Conference on Experimental and Clinical Coronary Pathophysiology, Durango, Colorado, USA. (American Heart Association, 7320 Greenville Ave., Dallas, TX 75231, USA)
25-30 August 1991. XIV International Congress of Allergology and Clinical Immunology, Kyoto, Japan. (Secretary, c/o International Communications, Inc., Kasha Blvd, 2-14-9, Nihonbashi, Chuo-ku, Tokyo 103 Japan)

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

31 August-5 September 1991. Fifth World Congress for Microcirculation, Louisville, Kentucky, U.S.A. (Patrick D. Harris, Ph.D., Dept. of Physiology and Biophysics, U. of Louisville, Louisville, KY 40292, USA)

1-7 September 1991. International Union of Biological Sciences 24th General Assembly, Amsterdam, Netherlands (Prof. P. G. W. J. Van Oordt, Chairman, Biological Council, Royal Academy of Sciences, Kloveniersburgwal 29, Postbus 19121, 1000 GC Amsterdam, Pays-Bas)


9-10 September 1991. Third International Symposium on Lipid Metabolism in the Normoxic and Ischemic Heart, Rotterdam, The Netherlands. (Dr. Hans Stam, Erasmus U. Rotterdam, PO. Box 1758, 3000 DR Rotterdam, The Netherlands)


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


22-26 September 1991. 1IVth 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, Schanzenstr. 1, CH 3012 Berne, Switzerland)


29 September-3 October 1991. American Physiological Society Fall Meeting, San Antonio, Texas, USA. (Dr. Martin Frank, AFS, 9650 Rockville Pk., Bethesda, MD 20814, USA)

6-11 October 1991. Eighth International Congress of Human Genetics, Washington, D.C., USA. (Dr. John J. Mullanphy, Secretary-General, ASHG, 9650 Rockville Pk., Bethesda, MD 20814, USA)

20-23 October 1991. 11th International Symposium on HPLC of Proteins, Peptides and Polysaccharides, Washington, D.C., USA. (Janet E. Cunningham, Barr Enterprises, PO. Box 279, Walkersville, MD 21793, USA)

27 October-1 November 1991. Third International Congress of Neuroimmunology, Jerusalem, Israel. (Dr. Haim Ovadia, Dept. of Neurology, Hadassah U. Hospital, PO. Box 50006, Tel Aviv 61001, Israel)


5-10 April 1992. 76th Annual Meeting of the Federation of American Societies for Experimental Biology, Anaheim, California, USA. (FASB Office of Scientific Mts., 9650 Rockville Pk., Bethesda, MD 20814, USA)

29 June-5 July 1992. Sixth International Symposium on Toxicology, Rome, Italy (IUTOX, Dr. J. E. Gibson, Chemical Industry Inst. of Toxicology, P.O. Box 1237, Six Davis Dr., Research Triangle Park, NC 27709, USA)

27-31 July 1992. Fifth International Congress for Cell Biology, Madrid, Spain. (Dr. F. J. Medina, Secretary General, 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. Mantine, Dept. of Biochemistry, Trinity Coll., U. of Dublin, Dublin 2, Ireland)

23-29 September 1992. 8th International Congress of Immunology, Budapest, Hungary (c/o IPV/INTER-Congress, H-1088 Budapest, Dona Gy. ut 84/a, Hungary)

28 March-2 April 1993. 77th Annual Meeting of the Federation of American Societies for Experimental Biology, New Orleans, Louisiana, USA. (FASB Office of Scientific Mts., 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)

22-27 August 1993. XVth International Congress of Nutrition, Adelaide, Australia. (Dr. R. M. Smith, General Secretary, CSIRO Division of Human Nutrition, Kintore Ave., Adelaide, South Australia 5000)


12 August 1990. Endothelial Biology, Milwaukee, Wisconsin, USA. (ASPET, 9650 Rockville Pk., Bethesda, MD 20814, USA)

14-17 August 1990. American Tissue Type Culture Collection Workshop on Fermentation Microbiol-ogy, Rockville, Maryland, USA. (Doug Drabkowski, ATCC, 12301 Parklawn Dr., Rockville, MD 20852, USA)

15-18 August 1990. Workshop on Electrochemical Approaches in Molecular Biology, Brno, Czechoslovakia. (E. Palecek, Inst. of Biophysics, Czechoslovak Academy of Sciences, Kralovepolski 135, 612 65 Brno, Czechoslovakia)

7-9 September 1990. Fourth International Workshop on Future Directions in Interventional Cardiology, Santa Barbara, California. (Registration Sec., Extramural Programs Dept., AOC, 911 Old Georgetown Rd., Bethesda, MD 20814, USA)

12-16 September 1990. Workshop on Site-Specific Recombination and Transposition, Woods Hole College, Massachusetts, USA. (Dr. Nancy Kleckner, Fairchild Bldg., Harvard U., 7 Divinity Ave., Cambridge, MA 02138, USA)

15-18 September 1990. Biological Workshop Series, HPLC: Separation and Methods, Kashan, Iran. (Dr. Abbas Samadi, Chmnn., Dept. of Biochemistry, Kashan Faculty of Med., PO. Box 317, Kashan, Iran)

21-22 September 1990. Pathology Update, New Orleans, Louisiana, USA. (Dr. Patrick D. Walker and Michael A. Gerber, Dept. of Path., Tulane U. School of Med. 1430 Tulane Ave., New Orleans, LA 70112, USA)

30 September-10 October 1990. Developmental Neurobiology, 2nd Course: International Conference on Neuro- science, Padua, Italy (Fidia Research Foundation, 1640 Wisc. Ave., NW, Washington, DC 20007, USA)

1-5 October 1990. Workshop in Biomedical Education, Sofia, Bulgaria. (T. K. Nikolov, Dept. of Biochem., Faculty of Biology, U. of Sofia, Dr. Tsankov Str 8, 1421 Sofia, Bulgaria)

2-5 October 1990. Fermentation Methods and Scale-up Strategies Workshop, University Park, Pennsylvania, USA. (Jim Shillington, 519 Wartner Lab., University Park, PA 16802, USA)


3-5 December 1990. Analytical Molecular Biology Seminar, Baltimore, Maryland, USA. (Mrs. Janet Cunningham, Barr Enterprises, PO. Box 279, Walkersville, MD 21793, USA)


Idiopathic Network and Diseases, Jan Cerny and Jacques Hiernaux, Editors. Washington, DC: American Society for Microbiology. 1990. 234 pages. $38.00 (members); $45.00 (nonmembers). ISBN 1-55581-025-X.


**Non-isotopic oligonucleotide labeling kits.** Two oligonucleotide labeling kits, E-LINK™ and E-LINK PLUS™, provide all the reagents, and a simple protocol, needed to covalently label two oligonucleotides with alkaline phosphatase.

The E-LINK PLUS™ kit contains Lumi-Phos™, a stable, highly sensitive chemiluminescent substrate, which produces a signal on X-ray film, with results shown to be equivalent to, or better than, 32P. The E-LINK™ kit contains no chemiluminescent substrate and allows users flexibility in choosing a substrate. Cambridge Research Biochemicals. Circle no. 55.

**Erythropoietin detection.** An expanded-range CLINIGEN Erythropoietin EIA Test Kit performs quantitative determination of erythropoietin in human serum. Erythropoietin, a naturally occurring hormone produced in the kidney, is a protein that regulates the production of red blood cells. The test helps diagnose anemias and polycythemias. The 96-well microplate kit has an expanded range of 0–200 mU/ml, improved sensitivity to 2 mU/ml, and an increased volume of wash concentrate for use with automated plate washers. The ELISA format produces results in less than 6 hours. AMGEN Diagnostics. Circle no. 58.

**Prepare, process, analyze numerous samples in standard Petri dish.** ScreenFast™ reversibly creates 64 leak-proof wells on a standard 150-mm tissue culture dish, distributing those wells in spacing identical to that in a standard 96-well microtiter plate. Researchers can prepare and process numerous samples in a microtiter plate format, then analyze those samples on a large, flat surface. Close microscopic examination with no cross-contamination. Suitable for use with fixed or living eukaryotic cells, virus-containing fluids, DNA precipitates, and bacterial or parasitic suspensions in in 1° increments. The system capabilities are also suited for isoelectric focusing, blot and transfer techniques. Helena Laboratories. Circle no. 54.

**Protein blotting/sequencing membrane.** Westram PVDF Protein Blotting/Sequencing Membrane, a pure hydrophobic PVDF with a high affinity for proteins and a broad compatibility with detection and analysis systems, is well suited for Western blotting of proteins, resulting in superior retention of low molecular weight proteins, sharp bands, and very low background upon staining. The membrane is also an ideal support for protein sequencing by Edman degradation. Electrotransferred or dot-blotted proteins remain tightly bound to Westram during sequencing, resulting in consistently high repetitive yields of amino acids in Edman digestion. Schleicher & Schuell. Circle no. 51.

**Temperature meter.** The S-1220 series of high-precision devices permit differential temperature measurements.
with a resolution of up to 0.001°C over the temperature range of −120° tc +120°C using Pt 100 RTD. Useful as a secondary reference, the S-1220 series allows an absolute accuracy of within ±0.005°C. The series exhibits a long-term drift of as little as 0.003°C per year. Capable of being calibrated to an individual transducer, the S-1220 series can also be calibrated to a standard linearization protocol. ThermoMetric of Sweden. Circle no. 46.

**Ice buckets.** For safe bench-top sample cooling these ice buckets have an outer layer of hard polystyrene that provides insulation and chemical resistance to keep ice for up to 8 hours in normal room temperatures. Resistant to acids and solvents and suitable for use with liquid nitrogen and dry ice. Rainin. Circle no. 48.

**Zoom stereo microscope offers high performance optics, comfort, versatility.** The SMZ-U microscope features an unprecedented 10:1 zoom ratio, offering images that are sharp across the entire viewing field and in constant focus for all magnifications from 3.75 × to 450 ×.

The SMZ-U has coaxial coarse- and fine-focusing knobs so users can quickly and accurately access perfect images. A two-position beam splitter module contains two ports for the simultaneous use of closed-circuit television and photomicrographic equipment. Nikon. Circle no. 56.

**Incubate and mix samples simultaneously.** The Eppendorf Model 5436 Thermomixer combines heating and shaking in one operation or use just as a heater or mixer. This model accommodates 24 × 1.5 mL tubes for accurate, uniform control of incubation temperature from 10° to 95°C. The Thermomixer can be used in a cold room for accurate control of below-ambient temperature as low as 10°C. Mixing speed is continuously adjustable from a gentle 500 rpm to a rapid 1400 rpm. Brinkmann Instruments, Inc. Circle no. 53.

**Cage provides excellent shielding properties.** Model FDC3036 Faraday Cage protects sensitive electrophysiology experiments from electromagnetic noise emanating from light fixtures, electric motors, and other electrical equipment. The cage is designed for use with the 30" × 36" Newport Vibration Isolated Workstation, Model VW-3036, and is freestanding to fit conveniently over the workstation. The isolation performance of the tabletop is not affected. Resistance between the panels and frame is less than 0.1 ohm for analysts real-time view and manipulation of the chromatograms. The Model 1020 offers a hard disk for long-term data storage, is completely compatible with PCs and larger systems, and can be used with all commercial liquid and gas chromatographs. The chromatographer may view one or two real-time plots and change attenuation at will. Perkin Elmer. Circle no. 57.

**Peroxidase substrate kits for immunohistochemical applications.** Two substrate kits for horseradish peroxidase detection systems, which produce either a red, aqueously mountable precipitate or a brown permanently mountable precipitate, are convenient and easy to use. These kits have all the reagents necessary to prepare a working solution of AEC (3-aminophenyl acetate) or DAB (3,3'-diaminobenzidine) for immunohistochemical applications. Each kit will produce about 300 mL of working solution, sufficient to stain 2000–3000 tissue sections. No weighing is necessary—all components are supplied as stabilized, concentrated stock reagents in convenient dropper bottles. Vector Laboratories. Circle no. 75.
Tool for endothelin receptor studies. According to test results, the binding of \[^{125}\text{I}\] Sarafotoxin S6b in rat cerebellum was saturable, of high affinity, and to a single site. A cardio- toxic snake venom, its primary amino acid sequence is highly homologous with the vasoconstrictor peptide endothelin-1. Amersham. Circle no. 63.

Large-capacity centrifuge rack. This six-capacity wire rack accommodates large capacity (up to 250 ml) centrifuge tubes. Epoxy coating protects against organic solvents, weak acids, and alkalies. Rack features tiers and dual rail channels on bottom for maximum tube support. Research Products International. Circle no. 47.

Easy-to-use, high performance ion chromatograph. The latest design in easy-to-use high performance ion chromatographs, the DX-100 is an integrated, single channel Ion Chromatograph that performs all types of isocratic IC separations using conductivity detection. The system is complete with no extra pumps or valves needed. Provides advanced conductivity detection, inert and solvent compatible flowpaths comprised of PEEK components, and a 4,000 psi rated pump. The affordable DX-100 is an excellent alternative for those considering a conductivity detector to add on to their current HPLC system. Chromatographers to use a dedicated IC system rather than risk HPLC equipment failure with IC chemistries. Dionex Corporation. Circle no. 62.

Submarine gel electrophoresis units. Two submarine gel electrophoresis units are designed for reliable electrophoresis of nucleic acids in agarose submarine gels.

The large-size unit accommodates 20 x 20 cm gels, gives maximum resolution and the ability to run a large number of samples at one time. Both units feature gel tray end blocks, which eliminate taping during gel casting, and integral UV-fluorescent rulers. Fisher Scientific. Circle no. 50.

Literature

1990 Janssen biochimica. Divided into four sections, the 1990 Janssen Biochimica 72-page catalog features almost 1,000 products in the areas of immunology, cell biology, biochemistry, and molecular biology. Accurate Chemical & Scientific Corp. Circle no. 64.

Catalog of chemicals and lab-related products for research and development regarded as one of the industry's major product listing encyclopedias, the 1480-page reference lists more than 10,000 organic, inorganic, and biochemical products with full specifications, CAS numbers, structural formulas, literature references covering new applications, and a section of unique products for the laboratory. Fluka Chemical Corp. Circle no. 60.

Protein, peptide sequences. A comprehensive brochure describes technological breakthroughs found in the PI 2090E protein and peptide sequencer. Discussion includes femtomole amino acid detection, details on its unique sample support disks, and data handling hardware and software. Porton Instruments, Inc. Circle no. 65.

Basic apparatus, supplies. Fisher LabExpo, a free 20-page, color catalog of recent developments in a broad range of basic laboratory apparatus and supplies, emphasizes design innovations from a new microcentrifuge tube that opens easily even with gloves to an advanced timer that remembers hours, minutes, and seconds of previous tests (it also has a unique "through-zero" feature that permits counting down, alarm-sounding, then counting up, automatically). Fisher Scientific. Circle no. 69.


Vol. 4 July 1990 NEW PRODUCTS 2827
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 subject coverage of FJ is illustrated by the following disciplinary areas: biochemistry, biophysics, cell biology, developmental biology, genetics, immunology, neurobiology, nutrition, pharmacology, and physiology.

Papers should begin with an abstract written for the general readership 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. Herefore 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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Style of Manuscript

General Instructions

1) Manuscripts should be typewritten, with double spacing and 1-inch margins, on 8½ x 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 head.

3) The title should be brief (not 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 "Renal hemodynamic effects of atrial natriuretic factor" rather than "Atrial natriuretic factor renal hemodynamic 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. Webster's New Collegiate Dictionary (1977) should be followed for spelling, compounding, 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 Nomenclature* (1990)].

*July 1990.
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 (3½ inches) or two columns (7½ 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-ruled instead of black-ruled 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 cm3 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 illustration; likewise the key to symbols should be on the face of the chart. Use one symbol for the same experimental condition 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: □ ■ ○ ● △ □ □ □ ∇ ▽ x.
6. Actual magnification of all photomicrographs should be given. The Editorial Office will make corrections for reduction. An axis on the photomicrograph itself is, however, preferable and more accurate.
7. Arrangements must be made well in advance with the Editorial Office for the reproduction of any illustrations in color. Authors must have funds available to meet the full cost of color plates and their printing.
8. *FJ* reproduces figures and charts in the smallest size consistent with readability and purpose of the illustration. However, authors may make recommendations for reduction or enlargement.
9. If illustrations that have been published elsewhere are included, permission must be obtained from the publisher and the author for their use in *FJ*. A copy of the letters granting such permission must be submitted with the manuscript to the Editorial Office.
10. Figure legends should be typed double-spaced, consecutively on one or more sheets of paper. Legends should contain sufficient information to provide adequate description without reference to the text.

Tables

Each should be typed double-spaced, on a separate sheet of paper. Each should have a brief title and should be numbered with Arabic numerals. Explanatory matter should be in footnotes. Table footnotes should be listed in order of their appearance with consecutive superior letters.

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, sd, se, etc., should be identified as such.

The approximate position of each table should be indicated in the margin of the text.

Formulas and Equations

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 typesetting 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

It is customary to acknowledge only persons who have made substantive contributions to the studies reported in the manuscript. Authors should obtain written permission for everyone acknowledged by name (including references to unpublished work) because readers may infer their endorsement of the paper and its conclusions. If appropriate, a statement of grant support may be included. Names of grant sources should not be abbreviated.

Experimental Procedures

This journal endorses the principles embodied in the Declaration of Helsinki and expects that all investigations involving humans will have been conducted in conformity with these principles. It is expected that the "Guiding Principles in the Care and Use of Animals" will have been observed in all animal experimentation reported in *FJ*.

Auxiliary Publication

Additional detailed tables, appendixes, descriptions of materials and methods, mathematical derivations, extra figures, and other supplementary matter too costly to be included in the journal article may be submitted for deposition without charge to the author with the American Society for Information Science (ASIS), National Auxiliary Publications Service. Material is deposited by the Editorial Office with the consent of the author, and a footnote is carried in the published article to the effect that photoprints or microfiche copies are available at moderate cost.

Author Charges

Authors of original research communications are allowed the equivalent of one full page of tables, figures, and halftones, or a half page of chemical and mathematical formulas and equations. Authors may be charged for material exceeding this allowance. When excess charges are anticipated, authors should make the necessary arrangements at the time a manuscript is submitted (i.e., initiation of an institutional purchase order, obligation of funds under a grant, etc.).

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Two sets of page proofs together with the original manuscript are sent to the author. Proofs should be carefully checked without delay and any necessary changes or printer's errors (to be marked in red) should be clearly indicated in the margins. Except for correction of typographic errors, the cost of authors' alterations of subject matter in type will be charged to authors if these charges exceed the journal's allowance. Proofs and the original manuscript should be returned within 48 hours to the Editorial Office, *The FASEB Journal*, 9650 Rockville Pike, Bethesda, MD 20814, USA.

Reprints

Each author receives with the proofs a reprint order form that must be completed and returned with the proofs to the Editorial Office if reprints are desired. Orders submitted after the journal is printed are subject to considerably increased prices.
POSITIONS AVAILABLE — Classified advertisement: $25.00 per line (70 characters), $200.00 (8 line) minimum. Display advertisement: $600.00 for ¼ page, 3½ inches x 4¾ inches; $900.00 for ½ page, 3½ inches x 9½ inches (vertical) or 7¼ inches x 4¾ inches (horizontal); $1200.00 for full page, 7¼ inches x 9¾ inches. (For display ads, add 5% if mechanical not submitted.) Advertisements will be published in next available issue unless otherwise specified. Deadline for receipt of copy is 5th day of month before publication. Payment or purchase order is required with insertion copy. Advertisements are noncommissionable to agents; no cash discounts are allowed. Blind advertisements are not accepted.

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Some registered candidates do not prepare Positions Desired advertisements; some advertisements are published at times not coinciding with employer recruitment activities. Primary employers not finding advertisements that appear to match current or projected needs are invited to request a search of all active candidate files. Telephone a description of the desired qualifications; results of search will be discussed telephonically with requesting official, and applications from candidates declared suitable will be forwarded. Employers not currently registered with Placement Service for annual meeting participation are charged a minimum fee of $30.00 for up to 10 applications, plus $3.00 for each above 10.

In publishing these advertisements FASEB assumes no obligations as to qualifications of prospective employees or responsibility of employers, nor shall FASEB obtain further information concerning positions advertised or those seeking employment. Accuracy and completeness of all listings are the responsibility of the submitting party.

Various U.S. national and state laws against discrimination, including the Federal Civil Rights Act of 1964, prohibit discrimination in employment in the United States because of race, color, religion, national origin, age, sex, or any reason not based on a bona fide occupational qualification. The Federation of American Societies for Experimental Biology endorses these principles and reserves the right to edit all copy and to refuse advertisements not in consonance therewith.

Employment in countries other than the United States may be restricted by government visa and other policies. Moreover, it is suggested that the generally accepted employment practices, the cultural conditions, and the exact provisions of the specific positions being considered be investigated thoroughly. The U.S. Embassies in countries of interest to potential employees should be able to provide up-to-date data concerning internal conditions.

For a description of operation at annual meetings, please refer to the January or February issue or contact the Placement Service.

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

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POSITIONS AVAILABLE

POSTDOCTORAL TRAINEESHIPS. Available immediately in a multidisciplinary NIAAA-funded research training program to study the genetic basis of alcoholism. The scientific disciplines involve molecular biology, enzymology, biochemistry, immunology and neurosciences (neurochemistry, neuropatharmacology, neuroanatomy, neuroendocrinology, electrophysiology and behavioral genetics). Annual stipend is $17,000-$30,000. Faculty includes 15 preceptors with long history of collaborative research. Applicants should send research interest, a CV and three letters of recommendation to Dr. Lawrence Lumeng, Indiana University School of Medicine, Departments of Medicine and Biochemistry, Medical Research & Library Building, 975 W Walnut Street, Room 424, Indianapolis, IN 46202-3121. Indiana University is an equal opportunity/ affirmative action employer.

RESEARCH FELLOWSHIPS, PULMONARY PHYSIOLOGY. Ph.D. or M.D. Specific areas: respiratory muscle mechanics and blood flow, heart-lung interactions, adaptation and growth after pneumonectomy, ventilatory control, human and animal exercise studies. Multidisciplinary approach involving Departments of Biochemistry, Bioengineering, Medicine, Pediatrics, Pathology and Radiology. Send CV to Robert L. Johnson, Jr., M.D., Department of Medicine/Pulmonary Research, University of Texas Southwestern Medical Center, 5323 Harry Hines Boulevard, Dallas, TX 75235-9034.

PROFESSOR/ASSOCIATE PROFESSOR, ASSOCIATE/ASSISTANT PROFESSOR. Two positions. M.D. preferred for Professor/Associate Professor. Broad training in human nutrition and metabolism with research interest focusing on diseases having a public health significance. Must have demonstrated record for maintaining a funded laboratory-based research program. Earned doctorate in nutritional science, biochemistry or closely related field; record of significant research support; teaching experience; nationally recognized research with significant publications in peer-reviewed journals. Expected beginning date is January 1, 1991. Application deadline: October 10, 1990. Send CV, selected publications and three reference letters to John J. Anderson, Ph.D., Chair, Search Committee, Department of Nutrition, School of Public Health, University of North Carolina, CB#7400, McGavran-Greenberg Hall, Chapel Hill, NC 27599-7400. AA/EOE.

RESEARCH SCIENTIST/CELLULAR IMMUNOLOGY. Study immune response to blood transfusion in different pediatric patient groups. M.D. and/or Ph.D. is required, as well as three years postdoctoral experience in cellular immunology. Experience in basic molecular biology techniques and cell sorting highly desirable. Salary: $35,000 per year including benefits. Interested candidates should submit CV and three references to Louis DePalma, M.D., Department of Laboratory Medicine, Children's National Medical Center, 111 Michigan Avenue, NW, Washington, DC 20010. EOE.
Toxicology Fellowships Available

The University of Mississippi Medical Center has five fellowships available for graduate training in toxicology. The program prepares students for work in academic, industrial research or government settings. The fellowship includes an $8,500 stipend, tuition and fees and travel to at least one national scientific meeting per year for presentation of the fellow's research. Stipends are funded by the National Institute of Environmental Health Sciences. Applicants should have a baccalaureate degree with a strong background in biology, chemistry or a related discipline.

U.S. citizenship or a permanent visa is required.

The Department of Pharmacology and Toxicology is internationally known for research in the toxic effects of chemicals and drugs on the respiratory, hepatic, cardiovascular and central nervous systems and in the fields of biochemical and analytic toxicology. The department has 12 faculty, 19 graduate students and 15 postdoctoral fellows.

The University of Mississippi Medical Center campus is located in Jackson, capital and the major metropolitan center of the state. For further information contact: Dr. Harihara M. Mehendale, Professor of Pharmacology and Toxicology, Department of Pharmacology and Toxicology, the University of Mississippi Medical Center, 2500 North State Street, Jackson, Mississippi 39216-4505.

The University of Mississippi Medical Center is an equal opportunity employer, M/F/H/V.
Postdoctoral Training
Toxicology and Carcinogenesis

Positions available for study in various aspects of cancer research and toxicology through the Departments of Biochemistry, Chemistry, Medicine, Pharmacology, and Pathology. Areas of investigation include synthetic chemistry related to toxic chemicals, mechanistic bio-organic chemistry, chemistry of heavy metal antidotes, DNA-carcinogen physical interactions, enzymology of animal and human cytochromes P-450 and chromatin proteins, the basis of metal carcinogenesis, chromatin function, hepatocarcinogenesis, eicosanoids, regulation of glutathione metabolism, and NMR and mass spectrometry. 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. P. Guengerich, Director, Center in Molecular Toxicology, Vanderbilt University, School of Medicine, Nashville, TN 37232.

An Affirmative Action/Equal Opportunity Employer

Research Scientist
Biochemistry

Organon Teknika Corporation's Biotechnology Research Institute conducts research for the Pharma Division of Akzo, N.V., a multinational pharmaceutical and diagnostics company. Our focus is on basic research and development in the areas of cancer and retroviruses.

An opportunity is currently available for a Scientist whose responsibilities include design and supervision of analytical procedures for pre-clinical evaluation of novel cancer therapeutic agents and monitoring clinical studies. A Ph.D. with up to 3 years' experience in bio-analytical techniques is needed. Supervisor experience would be helpful.

Biotechnology Research Institute offers competitive salaries and benefits including relocation assistance and a generous company-matched, pretax savings plan.

For consideration, please send your curriculum vitae with cover letter including salary history and names and telephone numbers of references to: Organon Teknika Corporation, Biotechnology Research Institute, 1330-A Piccard Drive, Rockville, MD 20850. Principals Only. EOE M/F/H/V

Research Scientist
Molecular Virology

This position is responsible for conducting research on retroviruses and related pathogenic elements aimed at understanding mechanisms of viral infection and pathogenesis, and regulation of viral gene expression. The development of vaccines and therapy for retrovirus infections is the ultimate goal of this work. A Ph.D. in molecular biology or virology and proven expertise in recombinant DNA techniques and expression of retroviral genes in bacterial and eukaryotic systems are required.

Advanced Bioscience Laboratories, Inc. offers competitive salaries and benefits including a company-matched Incentive Savings Plan. For prompt consideration, please submit a C.V. including salary history to: Advanced Bioscience Laboratories, Inc., 1330-A Piccard Drive, Rockville, MD 20850. EOE H/V/F

DEPARTMENT OF NUTRITIONAL SCIENCES
University of Connecticut

The Department of Nutritional Sciences at the University of Connecticut is seeking applicants for the following anticipated positions:

DEPARTMENT HEAD/PROFESSOR – (Search Reopened). Candidates should have strong distinguished teaching and research record as the department has a strong teaching and a well-funded interdisciplinary research program. Responsibilities include providing initiative and vision to departmental development and administering teaching, research and extension. Contact: Gretel Pelto, Ph.D., Chair, Search Committee. Phone (203) 486-1783. (Search #0A271).

ASSISTANT PROFESSOR (9-month, tenure-track). Qualifications include a Ph.D., M.D., D.PH. or equivalent degree. Postdoctoral experience preferred. Candidates who have studied human metabolism using techniques such as stable isotopes, molecular biology or nutritional epidemiology are encouraged to apply. Responsibilities include research and teaching at the undergraduate and graduate levels. Send CV, transcripts, a description of research plans and contact information for three references to: Carol J. Lamm Keefe, Ph.D., Chair, Search Committee. Phone (203) 486-0116. (Search #0A272).

Interested applicants should send information to the contact person indicated above at The University of Connecticut, Department of Nutritional Sciences, U-17, Storrs, CT 06269-4017. Closing date for application is August 1, 1990.

The University of Connecticut is an Affirmative Action/Equal Opportunity Employer.
CHAIRMAN
DEPARTMENT OF PHYSIOLOGY

The Stritch School of Medicine of Loyola University Chicago invites applications and nominations for the position of Chairman of the Department of Physiology. We seek a learned doctorate, Ph.D. or M.D., with teaching, research and service accomplishments commensurate with a tenured faculty appointment at the rank of Professor. A research interest in cardiovascular science with cellular and/or molecular dimensions would be preferred but all strong applicants will be considered. A proven record of scholarly activity, experience in attracting external research support, a commitment to graduate education and good managerial skills are prerequisites.

Applications or nominations should be received by August 1, 1990 and should include a CV and the names of four references. They can be sent to:

John F. Moran, M.D.
Chairman, Search Committee
Loyola University Medical Center
Russo Room 1830
2160 S First Avenue
Maywood, IL 60153

PROFESSOR AND 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 a Ph.D. in pharmacology or M.D. with significant research contributions in pharmacology. Applicants should have a demonstrated record of accomplishment in research, 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 basic and clinical pharmacology. Nominations and applications should be received before September, 1990. Applications consisting of a letter of intent, CV and three references should be sent to Allen R. Rhoads, Ph.D., Chairman of the Search Committee, Department of Biochemistry, College of Medicine, Howard University, 520 W Street, NW, Washington, DC 20059. Howard University is an equal opportunity/affirmative action employer.

POSTDOCTORAL FELLOWSHIP/GASTROINTESTINAL PHARMACOLOGY. Marion Merrell Dow Inc. is seeking applications for a postdoctoral fellowship in gastrointestinal pharmacology at its Kansas City, Missouri site. The area of research will focus on aspects of intestinal motility and its regulation. Applicants must possess a Ph.D. in pharmacology, physiology or biochemistry, with a strong emphasis on gastrointestinal motility. This two-year fellowship is supported by a competitive salary and benefits package. Qualified applicants are asked to send a current CV including a list of publications, names, addresses and telephone numbers of three references and a short statement of career goals to Ms. Nancy Paul, Human Resources Representative, Marion Merrell Dow Inc., PO. Box 9627, Kansas City, MO 64134. Equal opportunity employer.

POSTDOCTORAL. Ph.D., biochemical or biological sciences to participate in studies of G protein mediated signal transduction. Research will involve examination of receptor-G protein interactions and mechanisms of effector enzyme activation by G proteins. Experience with protein purification or lipid biochemistry is desired. Salary is negotiable, depending on experience. Send CV, reprints and two or three letters of reference to Kenneth R. McLeish, M.D., Director of Research, Division of Nephrology, University of Louisville School of Medicine, Louisville, KY 40292. The University of Louisville is an equal opportunity employer.

POSTDOCTORAL. The Hematology Division, Vanderbilt University is seeking qualified postdoctoral candidates to pursue basic research in the thrombosis and hemostasis field. Areas of research include: structure and function of serine proteases and their inhibitors; regulation of serpin biosynthesis. Candidates must have a strong background in protein biochemistry or in cellular and molecular biology. Send CV to Dr. Marc Schapira, Vanderbilt University, Hematology Division, Nashville, TN 37232. Vanderbilt University is an equal opportunity/affirmative action employer.

ASSISTANT PROFESSOR/POSTDOCTORAL (2). Harvard Medical School/Children's Hospital, Boston, MA. (1) Enzyme chemist with an interest in molecular biology to work on protein kinases of calcified tissues. (2) Protein chemist; noncollagensous proteins, protein chemistry and molecular biology. Candidates must have M.D. or Ph.D. and relevant experience. Submit resume to Melvin J. Glimcher, M.D., Children's Hospital, Enders Building, 320 Longwood Avenue, Boston, MA 02115.

POSITIONS DESIRED

Ph.D., 1990 (expected); Nutrition; Mineral absorption studies, isolated double perfusion of intestine, use and measurement of Fe-59 and Cu-67, atomic absorption spectrophotometry, gel electrophoresis, ELISA, cholesterol, phospholipid, and fatty acid determination, registered dietitian; Avail. January 1991; Postdoc.; Salary negot. 5-0131

Ph.D., 1982; Food science, nutrition; Experienced in metabolism using HPLC, HPLC-MS, radiotracers, food chemistry, kinetics, quality assurance tests, molecular biology and biotechnology, business administration; Avail. April 1990; Research/teaching (biochemistry/food science); Salary negot. 5-0296

Ph.D., 1979; Biochemistry, enzymology; Membrane transport kinetics and regulation in cells and after reconstitution in liposomes, preparation and characterization of membrane fractions, enzyme purification and kinetics, Western blot, heart perfusion; Research position in Northeast; Salary negot. 2-0363

Ph.D., 1990 (expected); Nutritional biochemistry, analytical chemistry, human and protein nutrition; Vitamin research, method development for GC and HPLC, extraction and isolation procedures, laboratory animal feeding studies, radiotracer research, teaching skills; Avail. September 1990; Research/teaching or postdoc. in academia/industry. 5-0410

Ph.D., 1986; Cell physiology, enzymology, endocrinology; Cell culture, enzyme purification & characterization, membrane ATPase assays, pharmacological methodology, column chromatography, hormone receptor assays, ELISA technology; Avail. June 1990; Research/teaching; Salary negot. 1-0433

Ph.D., 1990 (expected); Molecular biology, immunology, microbiology; DNA cloning, sequencing, hybridizations, monoclonal antibodies, ELISA, cell culture, computer literate; Avail. August 1990; Research associate in academia/research position in industry; Salary negot. 2-0489

M.D., 1987; Pharmacology; Tissue culture, RIA/ELISA, small animal surgery, image analysis, HPLC (GOLD), immunofluorescence microscopy/photography, immuno- & histochemical staining, histological procedures, Lotus 123, Word Perfect, Asystant +; Avail. January 1991; Research/teaching; Salary negot. 3-0497

Ph.D., 1990 (expected); Ruminant nutrition, intermediary metabolism, hepatic mixed function oxidase activity; Catheterization of major splanchnic vessels in sheep, surgical implantation of rumen and abomasal fistulas, analysis, insulin, glucagon, prolactin, glucose, NEFA, ketones; Avail. August 1990; Consulting/research; Salary negot. 5-0498

Ph.D., 1988; Psychobiology, neurobiology, neuropharmacology; PCR, recombinant DNA techniques, RT assay, sequencing, ELISA, IP assay, enzyme assay, histochemical and electrophysiological techniques, neural injuries, animal surgery and behavioral modeling; Avail. October 1990; Research/teaching in academia/industry; Salary negot. 2-0499

Ph.D., 1989; Muscle physiology, mechanics; Very small whole muscle force and mechanical work measurements, electromyograms from free running insects, optical microscopy, photography, designing and building simple electronics, computer programming; Avail. June 1991; Postdoc. in academia/industry; Salary negot. 1-0500
Ph.D., 1977; Neurophysiology and neuropharmacology (currently Associate Professor); CNS functions and head trauma, CBF regulations and brain metabolism, ischemia, reperfusion, free radicals, hyperbaric physiology, respiratory control, autoradiography, electrophysiology, microspheres; Avail. September 1990; Current salary $58K. 1-0501

Ph.D., 1987; Biochemistry, cell biology, xenobiochemistry; Endothelial cell culture, enzyme purification and kinetics, GCMS, HPLC, TLC, gel electrophoresis, basic molecular biology techniques, plasma membranes, proteoliposomes, in vitro assays; Avail. January 1990; Research/industry; Salary negot. 2-0502

Ph.D., 1989; Biochemistry, B.S. Pharmacy, 1983; Protein purification and characterization, receptor biochemistry (ligand binding and affinity cross-linking), signal transduction, HPLC, RIA, SDS-PAGE, Western blot, polyclonal antibody production and characterization, ELISA; Avail. August 1990; Research in industry; Salary negot. 2-0503

Ph.D., 1985; Biochemistry, physiology; Lipoprotein isolation, characterization, metabolism, apoprotein purification, analysis (gel electrophoresis HPLC), lipid extraction analysis (GLC, HPTLC), tissue culture of hepatocytes, hepatoma cells, preparation & analysis platelet concentrates; Avail. July 1990; Research/teaching in academia/industry. 2-0505

Ph.D., 1990 (expected); Autonomic pharmacology; Smooth muscle function, receptor-effector coupling, in vitro receptor binding, adenylate cyclase assay, Ca transport, subcellular fractionation, assay of membrane-bound ATPases, lipid peroxidation; Avail. February 1991; Postdoc. in academia/industry; Canada; Salary negot. 3-0507

Ph.D., 1978; Physiology, pharmacology, toxicology; Management of basic/applied pharmacology R&D program, small animal surgery, RIA, RRA, HPLC, pulmonary mechanics, pharmaceutical aerosols, contract management; Avail. July 1990; Industry, government, academia; Research/administration. 3-0508

Ph.D., 1984; Pharmacology, cardiovascular and CNS; Whole in vivo preparation, in vitro bioassays, radioenzymatic assays, ischemia, arrhythmias and role of nervous system, cardiac toxicity, drug registration reviewer; Avail. August 1990; Academia/industry; Salary negot. 3-0509

Ph.D., 1987; Nutritional biochemistry; Metabolism work related to lipid, vitamin E, lipoprotein, iron and phosphorus deficiency, protein modification technique, postdoc. training two years in biochemistry, HPLC, GLC experience; Academia or industry; No geographic preference; Salary negot. 5-0510

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

Ph.D., 1991 (expected); Venous return, cardiovascular, thermoregulation and exercise physiology; Bypass preparation, carotid sinus isolation, heat stress, dye dilution, mean transit time, radioimmunoassays, adrenergic and ganglionic blockade, neuropeptide Y, human exercise study; Avail. June 1991; Postdoc. in academia/industry; Salary negot. 1-0512

Ph.D., 1984; Biochemistry, protein and lipoprotein chemistry; Enzyme kinetics, protein modification, isotope effects, protein purification, tissue culture, gel electrophoresis, Western blotting, TLC, receptor-ligand interaction; Avail. August 1990; Research/teaching; Salary negot. 2-0513

Ph.D., 1990 (expected); Nutritional biochemistry, cell biology; Primary cell culture, organ cell culture, histology, SEM, TEM, gel electrophoresis, HPLC, autoradiography, isotope handling, animal surgery and injection, enzyme kinetics and computer programming; Avail. November 1990; Postdoc. in academia/industry. 2-0514

Ph.D., 1972; Protein biochemistry; Mini-titer assay, isoelectric ion-exchange chromatography, enzyme kinetics, lectin-RBC interactions [binding & morphological changes (SEM)], computers, experimental design, teaching medical biochemistry; Avail. August 1990; Administration, research, teaching; Salary negot.; PA, NJ, DE. 2-0515

Ph.D., 1985; Molecular biology, biochemistry, genetics; Gene expression and mapping, cloning, sequencing, Southern/Northern hybridization, PCR, pulsed field electrophoresis, null mutation, site directed mutagenesis, enzyme purification, HPLC, PhastGel, PAGE, TLC, cell/tissue culture; Avail. July 1990; Academia/industry; Salary negot. 2-0516

Ph.D., 1990 (expected); Pharmacology, physiology, pathology; Blood pressure regulation (central, peripheral), cardiac function, neuropeptides and peptides, endothelial mechanisms, thrombosis, coronary and cerebral circulation; Avail. September 1990; CT, NJ, NY, PA, FL. 3-0517

Ph.D., 1990; Pharmacology, biochemistry, physiology; Receptor assay techniques, protein purification, immunofluorescence, animal surgery, coagulation assays, tissue culture techniques, microtubules assembly, enzyme kinetics; Avail. May 1990; Postdoc. in academia/industry; Salary negot. 3-0518

Ph.D., 1991 (expected); Pharmacology, cell biology; Cell culture, radioimmunoassay, receptor binding, animal surgery, gel electrophoresis, photography (preparing slides and prints), HPLC, (analytical); Avail. May 1991; Postdoc. in academia/industry; Salary negot. 3-0519

Ph.D., 1984; Nutrition; R.D., MPH; Clinical & research experience in acute & chronic disease, visceral protein & trace mineral analyses & cytokine nutrition; Avail. July 1990; Assistant professor; Research/teaching position; Salary negot. 5-0520

Ph.D., 1986; Animal physiology, gastrointestinal motility, smooth muscle physiology; Microelectrode recording, in vivo/in vitro myoelectrical/ mechanical recording, animal surgery, IVC/intrabecal injection, general histology technique, immunocytochemical staining; Avail. July 1990; Research/teaching in academia/industry; Salary negot. 1-0521

M.D., 1980; Pathophysiology, pharmacology, physiology, biochemistry; Animal model in vivo and in vitro, animal surgery, isolated tissue, isolated perfused organs, hemodynamic study, pulmonary circulatory study, pulmonary metabolic study; Avail. July 1990; Postdoc. (research) in academia/industry; Salary negot. 1-0522

Ph.D., 1990 (expected); Pharmacology, toxicology, biochemistry; Mechanisms of peroxisomal proliferation, studies on hypolipidemic agents and plasticizers, enzyme kinetics, hormonal control, liver perfusion; Avail. September 1990; Postdoc. position in academia or industry; Salary negot. 3-0523

Ph.D., 1990 (expected); Nutritional biochemistry, enzymology; Enzyme assays, kinetics, water soluble vitamin status methodology, electron microscopy, small animal research, diet design; Avail. September 1990; Postdoc. in academia/industry; Salary negot. 5-0524

Ph.D., 1991 (expected); Nutrition, trace elements, biochemistry; Protein purification, gel chromatography, gel electrophoresis, animal care, surgery, radioisotope techniques, atomic absorption spectrophotometry; Avail. June 1991; Postdoc.; Salary negot. 5-0525

Ph.D., 1988; Neuropharmacology; Ex vivo & in vitro receptor binding, monoamine separation/detection using HPLC-ECD, dopaminergic locomotor and stereotype studies, serotonergic head-twitch & ear-scratch studies, isolated tissue studies, animal breeding, isolated-induced aggressive studies; Academia/industry; Salary negot. 3-0526

Ph.D., 1986; Biochemistry, pharmacology, molecular biology; Enzyme purification, immobilization, application, receptor purification, radioligand binding assays, nucleotide regulation, 2D, photoaffinity labeling; Avail. January 1991; Research/teaching; Salary negot. 2-0527

Ph.D., 1990 (expected); Pharmacology of vascular smooth muscle; In vitro characterization of a-adrenergic receptors, receptor binding, a5 adrenergic receptor mediated ion fluxes, phospholipid turnover and diacylglycerol production, SDS-PAGE, immunohematology, hematology, microbiology; Avail. July 1991; Postdoc., Boston. 3-0528

Ph.D., 1983; Biophysics; Molecular and cell biophysics, biomedical engineering and physiology, EM, SEM, NMR, IR, GC, RIA, autoradiography, fluorescent videomicroscopy, animal surgery, signal processing, medical illustration and experience in industry; Avail. 1991; Research in academia/industry; Salary negot. 1-0529
Ph.D., 1979; Biochemistry, cell biology, molecular biology; Retinoids and biological response modifiers in differentiation and proliferation myeloid, T & B cells, Western, Northern blots, synthesis of and antibodies to retinoids, pool analysis, toxicological (PAH) interaction, membrane enzymes; Avail. December 1990; Research/teaching/academia/industry. 2-0350

M.S., 1990 (expected); Biomedical engineering, pulmonary physiology; Cardiovascular and pulmonary circulation, lung fluid balance, image processing, mathematical modeling, in vitro and in vivo experiments, computer operating systems of IBM, UNIX, ANSYS, SAS GRAPHIC, IMSL, MATHLIB; Avail. August 1990; Academia/industry; Salary negot. 8-0531

Ph.D., 1983; Biochemistry, immunochemistry; Cell-cell adhesion, recognition and signal transduction mechanisms, sphingolipids, lectins, gangliosides and carbohydrates, cell culture, perfusion, MAb, PAb, membrane fractionation, enzyme analysis, SDS-PAGE/W/B/ELISA/RIA/receptor-binding/GLC-MS/HPLC/TLC; Avail. January 1991. 2-0689

Ph.D., 1990 (expected); Biochemistry, cell biology; Membrane enzyme purification & characterization, activity regulation, assays, FPLC, gel electrophoresis, antibody production & characterization, Westerns, ELISA, IPA, tissue culture; Avail. June 1990; Postdoc. signal transduction/gene regulation in neurons; Salary negot. 2-0690

Ph.D., 1980; Molecular biology, biophysics; DNA protein interactions, DNA damage/repair, MHC, recombination hotspots, South/North analysis, PCR, DNA/RNA isolation, pachystene isolation, DNA sequencing, cloning, cell culture, chromatography; Research 15 years; Avail. October 1990; Biomedical research or teaching position; Salary negot. 2-0691

Ph.D., 1988; Immunology, parasitology, cell biology; Monoclonal antibody production, gel electrophoresis, Western blotting, cloning, cell culture, immunofluorescence, scanning electron microscopy, transmission electron microscopy, histology, photography; Avail. July 1990; Research/teaching; Salary negot. 6-0692

Ph.D., 1990 (expected); Cell biology, immunology, biochemistry; RNA/DNA isolation, North/South hybridization, DNA/RNA labelling, DNA subcloning/sequencing, cDNA library preparation, cDNA/genomic library screening, cell culture, IL-2 bio-assay; Avail. July 1990; Industrial postdoc/research position; Salary negot.; Prefer NJ, NY, CT: 7-0693

Ph.D., 1985; Molecular biology, cell biology, biochemistry; DNA sequencing, cDNA cloning, in vitro translation & transcription, protein expression in prokaryotic and eukaryotic systems, retroviral vectors, PCR, antisense RNA methods, mammalian cell culture and transfections; Avail. December 1990; Research in academia/industry. 2-0694

Ph.D., 1990 (expected); Molecular biology; Cloning, DNA sequencing, hybridization, gel electrophoresis, tissue culture, library screening, Northern/Southern blotting, rodent surgery, primer extension, PCR; Avail. October 1990; Postdoc. or staff in industry; Salary negot.; Southeast preferred. 2-0697

Ph.D., 1988; Biochemistry, enzymology, protein purification; HPLC, ion exchange, size exclusion, affinity chromatography, antisera production, gel electrophoresis, Western blotting, immunofluorescence, immunohistochemical localization, isoelectric focusing; Avail. July 1991; Research/teaching; Salary negot. 2-0698

Ph.D., 1988; Biochemistry, enzymology, Protein purification, organic synthesis, HPLC, NMR, site-directed mutagenesis, GC/MS, CD, assay development, stopped-flow, DSC, and computer/instrument interfacing; Avail. September 1990; Rational drug design and synthesis; Salary negot. 2-0699

Ph.D., 1965, Immunology, microbiology; Murine and human cellular immunity, immunoregulation, tissue culture, small animal work, breeding & disease models, cytokine bioassays, ELISA, RIA, immunofluorescence microscopy; Avail. July 1990; Academia/industry/government; Research/teaching; Salary negot.; PA/NJ. 6-0701

Ph.D., 1985; Immunology, cellular and molecular biology; Tissue culture, antibody production, characterization, conjugation, RIA, ELISA, immunofluorescent, Western/Southern/Northern blotting, in situ hybridization, antigen characterization, molecular biology techniques. 6-0702

Ph.D., 1987; Immunology, biochemistry; Tissue culture, Jerne plaque assay, immunofluorescence, iodination, RIA, 3H-relese assay, assays for IL-2 activity and H2O2, Northern/Southern blotting, TLC, GLC, atomic absorption spectrophotometry, in vitro phospholipid synthesis; Avail. September 1990; Research/teaching; Salary negot. 6-0703

Ph.D., 1985; Biochemistry; Protein purification & enzymology, isoelectric focussing, 2D gel electrophoresis, protein crosslinking, peptide analysis; RNA contamination, primer extension, recombinant DNA techniques, antibody preparation, ELISA, Western blots, animal cell culture; Avail. July 1990; Research/teaching in academia/industry. 2-0704

Ph.D., 1990 (expected); Immunoparasitology, lung and mucosal immunology, neuroimmunology; ELISA, electrophoresis (1D & 2D), FACS analysis, Western/Northern blotting, PCR, immunohistochemistry, electron microscopy, TLC, autoradiography, tissue culture; Avail. December 1990; Salary negot. 6-0706

Ph.D., 1986; Molecular biology, protein chemistry; Cloning, omnidirectional blots, transformation filamentous fungi, gene expression, clone banks, PCR, development of enzyme purification scheme, characterization, kinetics, anaerobic techniques; Avail. October 1990; Research/management. 2-0707

Ph.D., 1985; Biochemistry, molecular biology, cell biology; Cloning, cell culture, transfection, mammalian expression systems, protein purification, overexpression of heterologous proteins, Northern/Southern/Western blots, site directed mutagenesis, structural analysis of carbohydrates; Avail. September 1990; Research/teaching. 2-0708

Ph.D., 1989; Molecular immunology and antibody structure-function; RNA isolation, cDNA cloning, DNA sequencing, Southern and Northern hybridization, PCR, protein purification, cell transfections, immunoassays, hybridoma techniques; Avail. July 1990; Postdoc. or staff position in academia or industry; Washington, DC area only; Salary negot. 6-0709

Ph.D., 1991 (expected); Protein chemistry, cell biology; Protein purification, absorption and fluorescence spectroscopy, circular dichroism, HPLC, affinity chromatography, antisera production, Western blotting; Avail. January 1991; Postdoc. in industry/academia. 2-0711

Ph.D., 1990 (expected); Biochemistry; Protein purification, HPLC, protein assays, gradient centrifugation, electrophoresis, in vitro transcrption/translation, RIA, ELISA, antisera production; Avail. February 1991; Postdoc. in academia/industry or research in industry; Salary negot. 2-0713

Ph.D., 1991 (expected); Immunonchemistry; Polyclonal Ab production and purification, solid phase binding assays, tissue culture, MAb production, molecular biology techniques, cDNA synthesis, cloning, deoxy DNA sequencing, PCR; Postdoc. in academia/industry; Salary negot.; No geographical preference. 6-0714

Ph.D., 1990 (expected); Immunoparasitology, immunonchemistry; Tissue culture, gel electrophoresis, Western blotting, ELISA, column chromatography, animal work, radioisotope work, immunocytochemistry, HPLC, FFLC; Avail. November 1990; Postdoc. in academia, industry position; Salary negot. 6-0715

Ph.D., 1986; Bioorganic chemistry, enzymology, organic synthesis; Enzyme kinetics and purification, inhibition studies (reversible, irreversible, product and suicide substrates), synthesis of substrate analogs and inhibitors, spectroscopic, oxygen uptake and radiochemical assays; Avail. January 1991; Industrial research. 2-0718

Ph.D., 1991 (expected); Biochemistry, protein chemistry; Cell culture, antibody production, Western blotting, protein purification, HPLC, circular dichroism, protein modification, fluorescent and isotopic ligand binding analyses, receptor phosphorylation assays; Avail. October 1991; Postdoc. in academia/industry; Salary negot. 2-0720

Ph.D., 1990 (expected); Biochemistry, enzymology; Organic synthesis, kinetic analysis and mechanistic studies of an enzyme, chemical modification, design and analysis of a mechanism based inhibitor, enzyme immobilization; Avail. December 1990; Research in industry/government; Salary negot. 2-0721
Ph.D., 1990 (expected); Microbiology, molecular biology; Gene cloning, DNA sequencing, RNA isolation, primer extension analysis, Northern and Southern hybridization, gel electrophoresis, maximall preparations, enzyme assays, bacterial cell culture, photography, computer literacy; Avail. January 1991; Postdoc. in academia/industry. 2-0722

Ph.D., 1991 (expected); Microbiology/molecular genetics; Cloning, gel electrophoresis, Northern/Southern/Western blotting, primer extensions, screening cDNA libraries, cell tissue/bacterial cultures, DNA shuttle vector construction; Bilingual (English/Spanish); Avail. April 1991; Postdoc. in academia/industry; Salary negot. 2-0723

Ph.D., 1988; Biochemistry, immunology, chemistry, molecular biology; Enzyme characterization and kinetics, MAB, PAB, electrophoresis, protein purification, ELISA, immunoprecipitation, modified nucleotides, kinetics, Southern blots; Avail. January 1991; Research/development, government/industry.academia. 2-0726

Ph.D., 1987; Biochemistry, cell biology; Enzyme kinetics, protein purification, Western blotting, peptide (protein digests and synthetic) purification and analysis, HPLC assays, spectroscopic techniques, polyclonal antibody production, alternate substrate synthesis; Avail. August 1990; Industry. 2-0729

Ph.D., 1987; Biochemistry, molecular biology, immunology; Fermentation, protein purification, FPLC, HPLC, immunoaffinity, enzyme assays, reaction kinetics, product analysis, MAB production, tissue culture, ELISA, immunofluorescence, cloning, library construction, PCR, expression in yeast, E. coli; Avail. June 1990; Research/teaching. 2-0730

Ph.D., 1989; Biochemistry; Protein isolation and characterization, carbohydrate analysis, tissue culture, ELISA, HPLC, gel electrophoresis, Western blotting, in vitro bioassays, colorimetric and fluorometric assays; Avail. September 1990; Industry; Salary negot.; Eastern U.S. 2-0733

Ph.D., 1985; Molecular and cell biology, microbiology; Cloning, sequencing, site-directed mutagenesis, electrophoresis, protein purification and characterization, receptor/ligand interactions, tissue culture, transfection; Teaching/research/non-traditional; Avail. July 1990; Salary negot. 2-0735

Ph.D., 1990 (expected); Immunology, mast cell and CTL biology; Tissue culture, cytokine and MAB production, in vitro bioassays, RIA, fluorescence microscopy, protein purification, HPLC, SDS-PAGE, RNA isolation, Northern analysis; Avail. October 1990; Postdoc. in basic immunology. 6-0737

Ph.D., 1986; Immunology (cellular, mucosal); Microbiology, endocrinology, ELISA, RIA, plaque assays, tissue culture, MAB production and screening, immunofluorescence, cytotoxicity, protein purification, animal surgery, immunization, computers; Avail. January 1991; Government/industry. 6-0738

Ph.D., 1967; Biochemistry, cell physiology; Bioenergetics, Ca2+-dependent transmembrane signalling, protein kinase C, intracellular Ca2+ homeostasis (all aspects), intercellular communication in liver, organ perfusion, cell isolation and culture, subcellular fractions, enzyme kinetics, radioisotopes; Academia/industry. 2-0742

Ph.D., 1986; Biochemistry, glycoconjugate analysis; cell biology; Protein/enzyme purification and characterization, enzyme kinetics, standard and high-pressure liquid chromatography, mono- and oligo-saccharide analysis, peptide isolation and sequencing, antibody production; Research/teaching; Salary negot. 2-0744

Ph.D., 1990 (expected); Molecular pharmacology, synthetic organic chemistry, immunochemistry; Synthesis and use of photoaffinity labels, purification of detergent solubilized receptor protein, anti-peptide antisera production, ligand binding assays, cell culture; Avail. November 1990; Postdoc. in academia/industry; Salary negot. 2-0745

Ph.D., 1988; Biochemistry, cell biology, molecular biology; Tissue culture, transfection, restriction, expression in oocytes, kinetics of receptor-like binding, lipid biochemistry (vitamin D, cytochrome P-450), crosslinking of ribosomal proteins, HPLC, spectroscopy, gel electrophoresis; Avail. January 1991; Academia/industry. 2-0749

Ph.D., 1990 (expected); Biomedical science, biochemistry, lipid biochemistry; Thin-layer chromatography, high-pressure liquid chromatography, enzyme assay, cell culture; Avail. September 1990; Postdoc. in academia/industry; Salary negot. 2-0750

Ph.D., 1991 (expected); Biochemistry, cell/molecular biology; HPLC, PAGE, TLC, 2D, chromatofocusing, protein cross-linking, enzyme kinetics, antibody production/isolation, immunoprecipitation, ELISA, cell culture, Western blotting, radioisotope and spectroscopic methods; Avail. May 1991; Postdoc. in academia/industry. 2-0752

Ph.D., 1990 (expected); Immunology, cell biology, botany, parasitology; Tissue culture, in vitro bioassays, radioisotope assays (C14, P32, Ca45), dose response assays, MAB production, immunolabeling techniques (EM & LM), basic molecular techniques, electrophoresis, Western, Southern blotting; Avail. September 1990; Industry. 6-0753

Ph.D., 1991 (expected); Immunology, microbiology, cell biology, Tissue culture, in vitro bioassays, immunofluorescence/flow cytometry, animal surgery, animal tumor models, lymphokines; Avail. June 1991; Postdoc. in academia/industry (neuroimmunology, cell senescence, cancer immunotherapy); Salary negot. 6-0754

Ph.D., 1978; Cellular immunology, immunogenetics; Cell culture, in vitro T cell activation assays, T lymphocyte cloning, MAB production, flow cytometric analysis, gene cloning, DNA sequencing; Avail. September 1990; Undergraduate teaching/industry research; Salary negot. 6-0755

Ph.D., 1988; Immunology, cell biology; Tissue culture, isolation of cells from gut associated lymphoid tissues, cytokine bioassays, limiting dilution assays, over 20 years teaching experience; Avail. September 1990; Teaching/research; Salary negot. 6-0756

Ph.D., 1990 (expected); Cellular immunology; Tissue culture, T cell proliferation and cytotoxicity assays, MAB-induced immunomodulation, hybridoma technology, immunofluorescence microscopy, FACS, in situ immunohistochemistry, autoimmune thyroid pathology; Avail. October 1990; Postdoc. in academia/industry; Salary negot. 6-0757

Ph.D., 1990 (expected); DVM; Immunology, cell biology, microbiology; Viral assays and production, antibody detection and production, electrophoresis, immunoonassays, blotting, RNA probes, clinical trials with cattle, recombinant DNA methodology, chemotaxis, LP chromatography, tissue culture; Avail. October 1990; Postdoc/staff. 6-0758

M.D., 1986; Ph.D., 1981; BC, Clinical pathology; Cellular immunology, immunopathology; Tissue culture, lymphocyte cloning, PAG, antibody production, ELISA, HPA, protein chemistry, HIV research, clinical laboratory management; Research/teaching/service; Salary negot. 6-0759

Ph.D., 1986; Biochemistry, cell biology; Study of the role of plasminogen activator and its inhibitors in cell differentiation, tissue culture, primary cell culture, gel electrophoresis, Western/Southern blotting, protein purification, enzyme kinetics; Avail. October 1990; Research/teaching; Salary negot.; Chicago area. 7-0761

Ph.D., 1991 (expected); Immunology, microbiology; Human and murine immune subset isolation and bioassays, cytokine measurement, 31Cr release, lymphocyte proliferation, FACS analysis, ELISA, anti-mycobacterial, anti-candidal, anti-tumor assays, monocyte, neutrophil, NK function; Avail. March 1991; Postdoc. 6-0762

Ph.D., 1972; Tissue culture, vascular & reproductive smooth muscle endocrinology, pharmacology, physiology; Stimulus-contraction coupling, receptor & membrane signal transduction, in vitro assay, enzymology, light/electron microscopy, cytoimmunohistochemistry; Avail. September 1990; Research, teaching, administration; So. Calif. 7-0763

Ph.D., 1985; Biochemistry, cell biology, pharmacology; Protein purification, subcellular fractionation, inositol phosphate separation, phospholipid analysis, enzyme assay methodology, insulin signalling, adipocyte cell system, diabetes related research; Avail. June 1991; Research/academia/industry; Salary negot. 2-0764
Ph.D., 1985; Pharmacology; Myocardial contractility, preparation and metabolism of adipocytes, subcellular fractionation, hormone receptor binding, protein phosphorylation and purification, Western blotting and immunoprecipitation, phosphopeptide analyses; Avail. June 1991; Research in academia/industry; Salary negot. 3-0765

Ph.D., 1988; Immunology, parasitology; Tissue culture, in vitro bioassays, lymphocyte cloning, protozoan and viral pathogens, mouse and human immunology; Avail. January 1991; Research/teaching; Salary negot. 6-0766

Ph.D., 1981; Biochemistry, molecular biology; Recombinant DNA, molecular cloning, DNA sequencing, expression of gene, isolation, purification and characterization of proteins, enzyme kinetics, HPLC, column chromatography, gel & thin layer electrophoresis, peptide mapping; Avail. September 1990; Research in academia/industry. 2-0768

Ph.D., 1982; Microbiology, microbial physiology, molecular biology; DNA sequencing, gene cloning, gel electrophoresis, PCR, clone screening by PCR, asymmetric PCR and sequencing, gene fusion and expression, slot and Southern blotting, colony hybridization; Avail. October 1990; Postdoc. in academia/industry; Salary negot. 2-0769

M.S., 1985; Microbiology; M.S., 1974; Biochemistry; Tissue culture, image cytometry, immunofluorescence, in vitro bioassays, cloning cells, 2D SDS-PAGE, enzyme assays, ELISA, RIA, microscopy, photography, Western blot, transfections, molecular biology, antisera production, Ab purification; Avail. September 1990; Supervisory position/industry. 8-0771

Ph.D., 1991 (expected); Immunology, veterinary immunology, microbiology; Tissue culture, lymphocyte cloning & phenotyping, protein & Western blotting, cellular immunoblotting, protein determinations, bacterial culturing, blastogenesis, 1 & 2-dimensional gel electrophoresis, animal work; Avail. March 1991; Postdoc.; Salary negot. 6-0773

M.S., 1990 (expected); Pharmacology, pharmacokinetics, pharmaceutics; Drug/chemical analysis, HPLC, TLC, gel electrophoresis, u/v spec- trometry, RIA, cell culture, technical writing; Avail. July 1990; Research/industry; Salary negot. 8-0774

Ph.D., 1989; Biochemistry, cell biology, cancer biology; Mammalian cell culture, MAb production and characterization, immunocytochemical techniques, SDS-PAGE, Western blotting, in vitro and in vivo receptor tyrosine kinase assays; Avail. August 1990; Postdoc. in academia/industry; Salary negot. 2-0775

Ph.D., 1987; Biochemistry, molecular biology; Protein purification, SDS-PAGE, in vitro cell free translation and transcription, enzyme biochemistry, nucleic acids isolation, Northern and Southern blot analysis; Avail. August 1990; Research position in academia/government/industry; Salary negot. 2-0776

Ph.D., 1976; Biochemistry, endocrinology; Signal transduction, enzyme assays, adenylate cyclase, protein kinase C and A, phosphorylation, autoradiography, gel electrophoresis, Western blot, GTP-binding protein detection, toxins labelling, cell fractionation, membrane biochemistry; Avail. September 1990; Research/teaching. 2-0777
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. Any resident of the Americas who conducts and has published meritorious original research in physiology shall be eligible for proposal for Regular membership. Residents of The Americas who are engaged in research in physiology or related fields and/or teaching physiology shall be eligible for proposal for Associate membership. Residents outside of The Americas who conduct and have published meritorious original research in physiology shall be eligible for proposal for Corresponding membership. Individuals must apply in writing on forms provided by the Society. Two Regular members must sponsor a candidate for membership. Emeritus members also can be sponsors of new members. A Corresponding or Honorary member of the Society may substitute for a Regular member in sponsoring a candidate for Corresponding membership. Council nominates candidates who stand for election by the vote of Regular members at business meetings of the Society. Other classes of membership include Honorary, Emeritus, Associate, Associate Corresponding, Student, and Sustaining Associate. Further information and nomination forms are printed in The Physiologist and are available from the APS Membership Services Department, 9650 Rockville Pike, Bethesda, MD 20814.

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

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

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

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

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

Affiliate Member

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

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Most people associate Gilson with fraction collectors. Many FC 80 and FC 100 Micro-Fractionators have been in use more than 15 years. But reliability doesn't stop with these instruments. Another collector, the FC 203, has a 98% problem-free performance record. A stationary rack system is one feature that assures reliable performance. Other features simplify operation. A special HELP key gives on-line instruction for time, drop or peak mode operation. And the FC 203 is just one of five Gilson fraction collectors.

**A peristaltic pump with smooth, reproducible flow**
Our Minipuls 3 is ideal for applications requiring smooth flow: LC, Flow Injection Analysis (FIA) and perfusion studies. By driving solvent with as many as 10 rollers, the pump provides nearly pulse-free flow and can operate at higher pressures. Reproducibility of flows from 10 μl to 220 ml/min is also assured. No matter how many times you reset the pump, you can always return to a previous value. This compact pump can be integrated with other analytical instruments or used in automated systems through remote control.

**Sample preparation systems eliminate tedious manual work**
Gilson liquid handling systems range from simple sample changers to large capacity auto-sampling injectors for up to 540 samples. Plus, we have two specialized systems. The ASPEC® System automates sample cleanup with extraction columns and automatically injects the prepared samples into an on-line HPLC system. The ASTED® System combines dialysis and trace enrichment to clean up complex biological samples.

**Eight complete HPLC systems to meet specific needs**
Besides individual instruments, we also offer complete HPLC systems. Eight series are offered based on gradient or isocratic elution, analytical or prep sample loads, automatic or manual injection. These can be configured with programmable pumps that provide system control or with computer-based controllers and Gilson software for system control and data analysis. And the modular design of all components facilitates upgrading at any time.

**Request your free guide today**
*Instruments for Liquid Chromatography and Sample Preparation* provides an overview of these and other Gilson instruments. It includes general specifications to help you determine the suitability of an instrument for your application. For your free copy, call toll-free 800-445-7661 (in Wisconsin, 608-836-1551). Or mark the reader service number below.

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