1993 Joint Meeting of
The American Association
of Immunologists
and the
Clinical Immunology Society

- Signal Transduction I-Structure and Transducer Function of Immune System Receptors
- Signal Transduction II-Intermediary and Distal Events
- Molecular Biologic, Biologic and Therapeutic Roles of Adhesion Molecules
- Cytokines as Regulators of Immune and Inflammatory Responses
- New Approaches to Immunotherapy and Vaccines Against Cancer
- Medical Applications of Engineered Antibodies
- T-Cell Macrophage Interactions in Infection (See topics below)
- HIV Infections

T-Cell Macrophage Interactions in Infection

Cochairmen: Drs. Robert L. Modlin and Barry R. Bloom

Macrophages in immunity to viruses — Rolf M. Zinkernagel, M.D., Ph.D.
Immunopathogenic mechanisms of HIV infection — Anthony S. Fauci, M.D.
Microbial superantigens — Philippa Marrack, Ph.D.
Evidence for a superantigen in human tuberculosis — Robert L. Modlin, M.D.
Molecular characterization of the T-cell repertoire in murine leishmaniasis — Richard M. Locksley, M.D.
Immune regulation in mycobacterial infection — Barry R. Bloom, Ph.D.
A reverse immunogenetic approach to identifying protective malaria antigens — Adrian V. S. Hill, DPhil MRCP
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<thead>
<tr>
<th>Sponsor</th>
<th>Meeting/themes</th>
<th>Deadlines</th>
<th>Location</th>
<th>For additional information</th>
</tr>
</thead>
<tbody>
<tr>
<td>APS</td>
<td>Physiology and Pharmacology of Motor Control</td>
<td>May 7, 1993&lt;sup&gt;a&lt;/sup&gt;</td>
<td>San Diego, California</td>
<td>APS National Office&lt;sup&gt;b&lt;/sup&gt; Phone: 301-530-7164</td>
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<td>Signal Transduction and Gene Regulation</td>
<td>July 9, 1993&lt;sup&gt;a&lt;/sup&gt;</td>
<td>San Francisco, California</td>
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<td>Experimental Biology '94</td>
<td>August 4-21, 1994</td>
<td>Anaheim, California</td>
<td>FASEB/Office of Scientific Meetings and Conferences&lt;sup&gt;c&lt;/sup&gt;</td>
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<tr>
<td>ASBMB</td>
<td>ASBMB and Division of Biological Chemistry of ACS</td>
<td>May 3, 1993&lt;sup&gt;e&lt;/sup&gt;</td>
<td>San Diego, California</td>
<td>FASEB/Office of Scientific Meetings and Conferences&lt;sup&gt;d&lt;/sup&gt;</td>
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<td>May 30-June 3, 1993</td>
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<td>ASBMB Fall Conferences</td>
<td>May 21, 1993&lt;sup&gt;e&lt;/sup&gt;</td>
<td>San Diego, California</td>
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<td>October 2-5, 8-11, and 15-18, 1993</td>
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<td>Topics: To be announced</td>
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<td>ASBET</td>
<td>Pharmacology '93</td>
<td>April 20, 1993&lt;sup&gt;a&lt;/sup&gt;</td>
<td>San Francisco, California</td>
<td>ASBET National Office&lt;sup&gt;b&lt;/sup&gt; Phone: 301-530-7060</td>
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<td>Tissue Injury; Molecular Mechanisms and Therapeutic Strategies</td>
<td>June 1, 1993&lt;sup&gt;a&lt;/sup&gt;</td>
<td>San Francisco, California</td>
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<td>July 30-August 3, 1993</td>
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<td>April 24-29, 1994</td>
<td>Anaheim, California</td>
<td>FASEB/Office of Scientific Meetings and Conferences&lt;sup&gt;c&lt;/sup&gt;</td>
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<tr>
<td>ASIP</td>
<td>COURSE: Concepts in Molecular Biology</td>
<td>October 28-31, 1993</td>
<td>Bethesda, Maryland</td>
<td>ASIP Office&lt;sup&gt;b&lt;/sup&gt; Phone: 301-530-7130</td>
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<td>AIN</td>
<td>XV International Congress of Nutrition</td>
<td>September 26-October 4, 1993</td>
<td>Adelaide, Australia</td>
<td>CSIRO Division of Human Nutrition FAX: 301-1800</td>
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<td>AAI</td>
<td>AAI/CIS Joint Meeting</td>
<td>April 16, 1993&lt;sup&gt;e&lt;/sup&gt;</td>
<td>Denver, Colorado</td>
<td>AAI Office&lt;sup&gt;b&lt;/sup&gt; Phone: 301-530-7178</td>
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<td>May 21-25, 1993</td>
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<td>ASGB</td>
<td>ASGB-35th Annual Meeting</td>
<td>August 6, 1993&lt;sup&gt;a&lt;/sup&gt;</td>
<td>New Orleans, Louisiana</td>
<td>FASEB/Office of Scientific Meetings and Conferences&lt;sup&gt;c&lt;/sup&gt;</td>
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<td>Biophysical</td>
<td>Biophysical Society Meeting</td>
<td>March 6-10, 1994</td>
<td>New Orleans, Louisiana</td>
<td>FASEB/Office of Scientific Meetings and Conferences&lt;sup&gt;c&lt;/sup&gt;</td>
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<sup>a</sup> 9650 Rockville Pike, Bethesda, MD 20814, USA  
<sup>b</sup> Abstract Deadline  
<sup>c</sup> Advance Registration  
<sup>d</sup> Housing  
<sup>e</sup> Placement Service  
<sup>f</sup> Phone: 301-530-7010. FAX: 301-530-7014
A comprehensive calendar is published 4 times a year (January, April, July, and October); new listings appear in other months. The calendar lists open meetings of a biological topic: conferences, symposia, courses, and workshops. To have your event listed, please include the date and year of the meeting, its title and location, and a contact name and address and send the information to Calendar Editor, The FASEB Journal, 9650 Rockville Pike, Bethesda, MD 20814, USA.

1993

22-23 April. Re-Engineering Pharmaceutical Organizations, Cambridge, Massachusetts, USA. (IBC USA Conf., 22 Turnpike Rd., Southborough, MA 01772-1749, USA)

23-28 April. Molecular Neurobiology Regulation of Biosynthesis and Function of Neuropeptides and Ion Channels, Crete, Greece. (J. Hendekovic, 1 quai Lézay-Marnéria, 67080 Strasbourg Cedex, France)

25-29 April. 10th IFCC European Congress of Clinical Chemistry, EUROBAL 95, Nice, France. (Group SEPFI/TECHNOEXPO, 8, rue de la Micoédère, 75002 Paris, France)

28 April-2 May. Society for Biomaterials, Birmingham, Alabama, USA (Society for Biomaterials, Business Mgmt. Ofc., 651B Walker St., Ste. 215, Minneapolis, MN 55426-4215, USA)


6-7 May. The American Pediatric Society, The Society for Pediatric Research, and The Ambulatory Pediatric Association, Washington, DC, USA. (APS/SPR Assoc. Headquarters, 141 Northwest Point Blvd., PO Box 675, Elk Grove Village, IL 60009-0675, USA)

6-8 May. 26th Hugh Loeb Conference on Arterial Wall Metabolism, Winston-Salem, North Carolina, USA. (R. St. Clair, The Bowman Gray Sch. of Med. of Wake Forest U, Dept. of Pathology, Med. Ctr. Blvd., Winston-Salem, NC 27157-1086, USA)

8-13 May. Membrane Dynamics in Endocytosis, Il Circo, Italy. (J. Hendekovic, 1 quai Lézay-Marnéria, 67080 Strasbourg Cedex, France)

9-12 May. Bioavailability ’93, Ettingen, Germany. (U. Schlemmer, Eugenerrrnr. 20, W-7300 Karlsruhe, Germany)


12-15 May. 2nd International Conference on Stroke, Geneva, Switzerland. (Secretariat, c/o Kuoni Travel, Ltd., 7 Rue de Berne, CH-1211, Geneva 1, Switzerland)

13-14 May. Cell Adhesion Molecules: Targets for the Development of Therapeutics and Diagnostics, San Francisco, California, USA. (IBC USA Conferences, Inc., 225 Turnpike Rd., Southborough, MA 01772, USA)


21-25 May. AAIC/SF Joint Meeting, Denver, Colorado, USA. (American Association of Immunologists, 9500 Rockville Pike, Bethesda, MD 20814-3994, USA)


24-28 May. Polysaturated Fatty Acids/Eicosanoids and Antioxidants in Biology and Human Diseases, Copenhagen, Denmark. (International Food Sci. Ctr. A/S, PO. Box 44, Sonderskoven 7, DK-8520 Lystrup, Denmark)

*26-28 May. 13th Stony Brook Symposium on Protein-Protein Interactions in Transcriptional Control, Stony Brook, New York, USA. (Dept. of Biochemistry and Cell Biology, SUNY, Stony Brook, NY 11794-5215, USA)

30 May-2 June. 16th Annual Meeting of the Canadian College of Neuropsychopharmacology, Montreal Canada. (S. Young, Dept. of Psychiatry, McGill U, 1033 Pine Ave., West, Montreal, Quebec, H3A 1A1 Canada)

30 May-3 June. American Society for Biochemistry and Molecular Biology and Biological Chemistry Division of the American Chemical Society, San Diego, California, USA. (PASEB Ofc. of Scientific Mgs & Conf., 9500 Rockville Pike, Bethesda, MD 20814-3998, USA)

30 May-4 June. The 41st ASM Conference on Mass Spectrometry and Allied Topics, San Francisco, California, USA. (J. Sjoberg, ASMS, 815 Don Gaspar, San Fe, CA 97590, USA)


2-4 June. W. O. Atwater Centennial Celebration Symposium, Washington, DC, USA. (S. Harris, ILSI Rach. Fdn., 1126 16th St., NW, Washington, DC 20036, USA)

2-4 June. ICES-ELPHO ’93, Sandeford, Norway. (N. Schum, Rach. Inst. for Internal Med., Rikshospitalet, Filstrederet 32, N-0027 Oslo, Norway)


*5-8 June. Congress on Cell and Tissue Culture, San Diego, California, USA. (Congress on Cell and Tissue Culture, PO. Box 73230, Baltimore, MD 21273, USA)

5-10 June. FASEB Summer Research Conference: Lymphocytes and Antibodies, Saxtown River, Vermont, USA. (FASEB Summer Rach. Conf. Ofc., 9500 Rockville Pike, Bethesda, MD 20814-3998, USA)

6-9 June. Third International Meeting on Platelets and Vascular Occlusion, Santa Fe, New Mexico, USA. (NYAS, Conf. Dept., 2 E. 63rd St., New York, NY 10021, USA)

6-10 June. Second International Symposium on Bioorganic Chemistry, Fukushima, Japan. (Dept. of Chemical Science and Technology, Faculty of Engineering, Kyushu U. 36, Higashi-ku, Fukushima 812, Japan)

7-8 June. Frostiers in Macromolecular Structure and Function, Toronto, Ontario, Canada. (J. Forman-Kay, Biochemistry Rach. Div., The Hospital for Sick Children, 555 University Ave., Toronto, Ontario M5G 1X8, Canada)

7-10 June. IXth International Conference on AIDS, IVth STD World Congress, Berlin, Germany (DER-CONGRESS, Bundessaele 56, D-1000 Berlin 31, Germany)

7-11 June. IXth International Conference on Aids, Berlin, Germany. (K.O. Habermehl, Inst. for Clinical and Experimental Virology of the Free U. of Berlin, Hinderburgdamm 27, D-1000 Berlin 45, Germany)

7-11 June. Critical Issues in Tumor Microcirculation, Angiogenesis and Metastasis: Biological Significance and Clinical Relevance, Boston, Massachusetts, USA. (Harvard MED-CME, PO. Box 825, Boston, MA 02117, USA)

8-11 June. 12th Annual Conference of the Molecular Graphics Society, Interlaken, Switzerland. (12th Annual Conf. of the MGS, PO. Box 6, Clarastrasse 57, CH-4005 Basel, Switzerland)

9-12 June. The Endocrine Society Annual Meeting, Las Vegas, Nevada, USA. (A. Singer, The Endocrine Society, 9500 Rockville Pike., Bethesda, MD 20814-3998, USA)

9-13 June. American Association of Neuropathologists, Salt Lake City, Utah, USA. (J. Townsend, Dept. of Pathology, U. of Utah Med. Ctr., 50 N. Med. Dr., Salt Lake City, UT 84132, USA)


12-17 June. 15th Annual Scientific Meeting of the College of Problems of Drug Dependence, Toronto, Canada. (M. Adler, Dept. of Pharmacology, Temple U. Sch. of Med., 3420 N. Broad St., Philadelphia, PA 19140, USA)


14-15 June. Comparative Pathology of Lestiviral Infections, Bethesda, Maryland, USA. (The Registry of Comparative Pathology, Armed Forces Inst. of Pathol- ogy, Washington, DC 20306, USA)

Courses and Workshops 1993

19-20 April. Basic Cloning and Hybridization Techniques, Houston, Texas, USA. (Biotechnology Training Programs, Inc., 301 Main St., Ste. 3, Ames, IA 50010, USA)

19-25 April. Recombinant DNA Technology: Methods and Applications, Buffalo, New York, USA. (R. Cunningham, The Ernest Wiesbey Ctr. for Immunology, 213 Sherman Hall, U. of Buffalo, 3425 Main St., Buffalo, NY 14214, USA)


28 April. Biotechnology Applications in Biomaterials Workshop, Birmingham, Alabama, USA. (ARDEL Mgmt., Inc. 6318 Walker St., Ste. 205, Minneapolis, MN 55426-4215, USA)

1-21 May. International Training Course on Biotechnology of Cell Cultures, Sao Paulo, Brazil. (C. Pereira, Instituto Butantan, Lab. de Immunologia 1. A. Av. Brasil 1500 CF 65, 05503-900 Sao Paulo, Brasil)

3-7 May. Basic Cell and Tissue Culture, Washington, DC, USA. (Ofc. Mgr., CATCMB/TC 303 Ward Bldg., The Catholic U. of America, Washington, DC 20064, USA)

5 May. Introduction to PCR, Philadelphia, Pennsylvania, USA. (S. Chance, Biotechnology Training Programs, Inc., 301 Main St., Ste. 3, Ames, IA 50010, USA)

5-7 May. Microscopy/Photomicrography, Rockville, Maryland, USA. (ATCC/Workshop Mgr., 12301 Parklawn Dr., Rockville, MD 20852, USA)

7-11 May. Basic Cloning & Hybridization Techniques, Philadelphia, Pennsylvania, USA. (S. Chance, Biotechnology Training Programs, Inc., 301 Main St., Ste. 3, Ames, IA 50010, USA)


11-14 May. Mammalian Cell Culture Methods, University Park, Pennsylvania, USA. (F. Phillips, Penn State Biotechnology Inst., The Pennsylvania State U., 519 Wurk Lab., University Park, PA 16802-5807, USA)

17-18 May. Clinical Applications of PCR, Durham, North Carolina, USA. (S. Chance, Biotechnology Training Programs, Inc., 301 Main St., Ste. 2, Ames, IA 50010, USA)


18-23 May. A Symposium on "Decoding" Parkinson, Ireland. (J. Atkins, Dept. of Human Genetics, U. of Utah, Eccles Inst. of Genetics, Rm. 6610, Salt Lake City, UT 84112, USA)


21-22 May. Latex Particle Immunoeassays, Buffalo, New York, USA. (R. Cunningham, The Ernest Wiesbey Ctr. for Immunology, 213 Sherman Hall, U. of Buffalo, 3425 Main St., Buffalo, NY 14214, USA)

22-24 May. Nuclear Acids and Membrane Proteins, Vancouver, British Columbia, Canada. (D. Still, Dept. of Molecular Biology and Biochemistry, Yale U., New Haven, CT 06511, USA)


23-26 May. Second Annual Wound Care Symposium, Richmond, Virginia, USA. (G. Hettena, Ofc. of Med. Ed., Box 48, Richmond, VA 23298-0048, USA)


25-26 May. Troubleshooting HPLC Systems/Troubleshooting Chromatography Data Systems, King of Prussia, Pennsylvania, USA. (LCR Resources, Inc., 2930 Camino Diablo #110, Walnut Creek, CA 94596, USA)


27-29 May. 9th Annual Current Issues in Anatomic Pathology, San Francisco, California, USA. (N. California, Extended Programs in Med. Ed., Rm. LS-105, San Francisco, CA 94153-0742, USA)

29 May-4 June. The 41st ASMS Conference on Mass Spectrometry and Allied Topics, San Francisco, California, USA. (J. Sjoberg, ASMS, 815 Don Gaspar, Santa Fe, NM 87501, USA)

6-11 June. Recombinant DNA Technology, Bloomington, Indiana, USA. (J. Clay, Sch. of Continuing Studies, Owen Hall 204, Indiana U., Bloomington, IN 47405, USA)

*7 June. Introduction to PCR, Lincoln, Nebraska, USA. (S. Chance, Biotechnology Training Programs, Inc., 301 Main St., Ste. 3, Ames, IA 50010, USA)

7-11 June. Recombinant DNA: Techniques & Applications, Rockville, Maryland, USA. (ATCC/Workshop Mgr., 12301 Parklawn Dr., Rockville, MD 20852, USA)

8-9 June. Quantitative RNA-PCR, Lincoln, Nebraska, USA. (S. Chance, Biotechnology Training Programs, Inc., 301 Main St., Ste. 3, Ames, IA 50010, USA)

9-11 June. Approaches to Design and Development of Cost-Effective Laboratory Animal Facilities, Ottawa, Ontario, Canada. (Canadian Council on Animal Care, 1000-151 Slater, Ottawa, Ontario, KIP 3H3 Canada)

10-11 June. DNA Sequencing w/o Radioactivity, Lincoln, Nebraska, USA. (S. Chance, Biotechnology Training Programs, Inc., 301 Main St., Ste. 3, Ames, IA 50010, USA)

14-15 June. Basic Cloning & Hybridization Techniques, Lincoln, Nebraska, USA. (S. Chance, Biotechnology Training Programs, Inc., 301 Main St., Ste. 3, Ames, IA 50010, USA)

15-18 June. Polymerase Chain Reaction/Cycle DNA Sequencing, Rockville, Maryland, USA. (ATCC/Workshop Mgr., 12301 Parklawn Dr., Rockville, MD 20851, USA)

22-23 June. Advanced Hybridomas Technology, Rockville, Maryland, USA. (ATCC/Workshop Mgr., 12301 Parklawn Dr., Rockville, MD 20852, USA)

27 June-2 July. Techniques for DNA Sequencing and PCR and RFLP Analysis, Bloomington, Indiana, USA. (I. Clay, Sch. of Continuing Studies, Owen Hall 204, Indiana U., Bloomington, IN 47405, USA)


INTERNATIONAL CONGRESS ON THE REGULATION OF LEUKOCYTE PRODUCTION AND IMMUNE FUNCTION
A Joint Meeting of the Australasian Society for Immunology and the Society for Leukocyte Biology

DECEMBER 1-5 1993
Sydney Convention Centre, Darling Harbour, Sydney, Australia

INVITATION

In December 1993, the Australasian Society for Immunology and the Society for Leukocyte Biology will hold a scientific meeting in Sydney, Australia. The Congress will host international guest speakers and participants. Recent developments in stem cell biology, cell locomotion, adhesion molecules, growth factors and their receptors, signal transduction, immunological tolerance, and the immunology of infectious diseases are but a few of the topics to be discussed in plenary sessions and symposia.

The two societies extend a warm invitation to scientists around the world to attend the Congress and take the opportunity to absorb some high quality science and to visit one of the world’s most beautiful cities at the perfect time of year (December is late spring in Australia). We look forward to seeing you in Sydney. — The Organizing Committee

SCIENTIFIC PROGRAM

The program will cover a wide range of topics in the area of leukocyte biology, with particular emphasis on the immune system. Plenary sessions will feature internationally renowned speakers from Australia, the USA, Europe, and Japan, and will cover hematopoietic stem cell purification, tolerance and immunoregulation, antigen processing and presentation, signal transduction in the regulation of cell proliferation and differentiation, Leukocyte migration and tissue localization, and the response to infectious disease.

GENERAL INFORMATION

For scientific program:

Dr. Barbara Fazekas de St Groth
Centenary Institute of Cancer Medicine & Cell Biology
Locked Bag No. 6, Newtown
NSW 2042, AUSTRALIA
Tel: 61 2 692 3969 or 61 2 692 3963
Fax: 61 2 692 3968

Symposia are planned to include the following topics:

- Cytokine Signal Transduction
- Hematopoietic Progenitor Cells
- Granulocyte Activation and Function
- Macrophage Activation and Function
- Genetics of Disease Resistance
- Inflammation
- Receptor/Ligand Structure and Interactions
- Cytokine Biology
- Cell Homing and Adhesion Molecules
- Mechanisms of Cytotoxicity
- Physiological Roles of Nitric Oxide
- Growth Factor Receptors and Signaling
- Cytokine Antagonists
- Disorders of Leukocytes and Gene Therapy
- β Cell Molecular Biology
- β Cell Function
- T and β Cell Ontogeny
- T Cell Subsets and Function
- Oncogenes and Proto-oncogenes
- T and β Cell Signal Transduction
- Tumor Biology and NK Cells
- Wound Healing and Angiogenesis
- Autoimmunity
- Allergy
- Human Immunodeficiency Virus
- Transplantation
- Antigen Presentation

Registration and accommodation details:

AS/SLB Congress Secretariat
GPO Box 128, Sydney NSW 2001
AUSTRALIA
Tel: 61 2 262 2277; Fax: 61 2 262 2323
Tix: AA 176511 TRHOST
POSITIONS AVAILABLE — Line advertisement: $25 per line (70 characters), $250 (10 line) minimum. Display advertisement: $400 for ¼ page, 3½ inches x 2½ inches; $700 for ½ page, 3½ inches x 4½ inches; $1200 for ¾ page, 3½ inches x 5½ inches (vertical) or 7½ inches x ¼ inches (horizontal); $2000 for full page, 7½ inches x 5½ inches. (For display ads, add 5% if mechanical not submitted.) Advertisements will appear in next available issue unless otherwise specified. Deadline for receipt of copy is 5th day of month before publication. Payment, purchase or insertion order, written invoicing instructions, or MasterCard or VISA account number with expiration date and signed authorization is required with insertion copy. Advertisements are noncommissionable to agents; no cash discounts are allowed. Blind advertisements are not accepted.

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Correspond to FASEB Placement Service, 9650 Rockville Pike, Bethesda, MD 20814-3998 (301) 530-7020, FAX (301) 530-7001.

POSTDOCTORAL TRAINING POSITIONS

Postdoctoral research training positions are currently available for recent recipients of Ph.D. and/or M.D. degrees with knowledge and experience in protein biochemistry and/or molecular biology. Training opportunities include coagulation and related research, protein structure determination, and protein engineering. However, the participation in these positions will not be limited to the biochemical and molecular biological techniques to study the following:

- Structure-function relationships of coagulation proteins
- Enzymology and kinetics of blood coagulation
- Receptor-mediated interactions of coagulation proteins with platelets
- Characterization of intrinsic platelet coagulation proteins and inhibitors
- Characterization of structural domains of coagulation proteins including factors XI, IX, VIII, and X and high molecular weight kininogen

Interested candidates may send correspondence, curriculum vitae, and three letters of reference to: Peter N. Walsh, M.D., Ph.D., Professor of Medicine, Biochemistry and Thrombosis Research, The Sol Sherry Thrombosis Research Center, Temple University School of Medicine, 3400 North Broad Street, Philadelphia, PA 19140. Temple University School of Medicine is an EOE/AA employer and strongly encourages applications from women and minorities.

Choose

TEMPLE
Pulmonary Research

At Genentech, Inc., our success as an entrepreneurial biotechnology company has made us one of the most stable in the industry. We're currently seeking Scientists to join our pulmonary research program to discover and evaluate new molecular approaches to the treatment of lung disease.

We're looking for a Pulmonary Physiologist or Pharmacologist with a PhD or MD to initiate an experimental program to evaluate novel therapeutics in animal models of lung disease. Expertise in measuring lung function in small animals and in animal models is strongly desired.

We're also looking for an outstanding Pulmonary Scientist with a PhD or MD, 3-5 years' industrial or academic experience, and a strong interest in the molecular and cellular mechanisms of obstructive or inflammatory lung diseases.

For immediate consideration, please send your resume to: Wendy Reitherman, Genentech, Inc., Human Resources, 460 Point San Bruno Blvd., South San Francisco, CA 94080. We promote and actively support affirmative action and equal employment opportunity.

Genentech, Inc.
POSTDOCTORAL/RESEARCH ASSOCIATE. Department of Cardiovascular Research, Harvard Medical School, New England Regional Primate Research Center, Southborough, MA, invites applications for a postdoctoral position. Experience in both biochemistry and molecular biology is desirable. An individual is needed to study the effects of heart disease on transmembrane signaling systems in the heart and vasculature. The individual must have the ability to eventually carry out an independent research program and will interact with a biochemical and physiological research team which will provide whole animal physiological data to interface with biochemistry and molecular data. Interested applicants should forward CV and a statement of research interests to Lisa Carucci, CV Medicine, Harvard Medical School, NERPRC, P.O. Box 9102, One Pine Hill Drive, Southborough, MA 01772-9102.

THREE INSTITUTIONAL, TWO NIH POSTDOCTORAL, SIX NIH POSTDOCTORAL FELLOWSHIPS in cardiovascular and neurophysiology beginning 1 July, 1992 at the University of California, Davis. Review of applications is ongoing. Preceptors (16) will direct individualized training programs to develop knowledge and technical skills required to become independent investigators. Candidates must have M.D. or Ph.D. and be either U.S. citizens or permanent residents; M.D.'s must have completed all clinical training. Submit CV to John Longhurst, M.D., Ph.D., Cardiovascular Medicine, TB172, University of California, Davis, CA 95616. The University of California is an equal opportunity/affirmative action employer.

POSITIONS DESIRED

Ph.D., 1985; Renal physiology; Vascular physiology and tubular sodium transport using in vivo, in situ and in vitro methods, microperfusion, glomerular mesangial and tubule cell cultures, HPLC, RIA, lipids, EDRF's, angiotensin peptides, adrenergic nervous system; Avail. Apr 93; Research in academia/industry; Salary negot.; PR. 1-3034

Ph.D., 1980; Immunology, pharmacology, physiology; Signal transduction mechanism of phagocyte respiratory burst in sepsis, animal/cell pharmacology, tissue culture, cytotoxicity assays, RIA, Western blot, teaching; Avail. Jul 93; Teaching/research in academia/industry; Salary negot.; PR. 6-3074

Ph.D., 1993 (expected); Immunology, molecular biology, growth factors; Gene expression, cloning, sequencing, vector construction, Northern/Southern/Western/ligand blotting, RT-PCR, RNase protection, PAB/MAb, bioassay, FACS, ELISA, RIA, tissue culture, EM, computers; Avail. Jul 93; Research/postdoc. in academia/industry; PR. 6-3075

Ph.D., 1993; Physiology, biology; In vitro studies of ideal longitudinal smooth muscle drug-mediated contractile responses in vitamin D-deficient/normal chicks; Avail. Apr 93; Research; Salary negot.; New York City. 1-3144

Ph.D., 1989; Neuroscience/ophthalmology, lipid/protein biochemistry; Neuronal development/regeneration, retinal degeneration, herpetic latency, HPLC, GLC, FPLC, electron microscopy, immunohistochemistry; in situ hybridization, Western blot, teaching, computer skills; Avail. Apr 93; Research/teaching in academia/industry. 2-3185

Ph.D., 1982; Immunology, microbiology, protein chemistry, membrane biology; Gel electrophoresis, Western blotting, hemolytic assays, column chromatography, cytotoxicity assays, FPLC, protein purification; Avail. Aug 93; Research in academia/industry; Salary negot. 6-3210

Ph.D., 1987; Biochemistry, biophysics; Spectroscopy, luminescence, UV-VIS, IR, NMR, plasma emission, CD, chromatography, gel, affinity, TLC, HPLC, paper, adsorption, electrophoresis, gel, 2D, protein chemistry, purification, characterization, biochemical analysis, instrumentation; Avail. Aug 93; R&D in academia/industry; PR. 8-3249

Ph.D., 1993 (expected); Organic chemistry; Design, synthesis, testing of organic substrates as probes of enzyme mechanisms, organic synthesis, multinouclear FT-NMR, FT-IR, UV-VIS, HPLC, GC, variable temperature EPR, enzyme purification/kinetics, electrophoresis; Avail. Dec 93; Salary negot. 2-3251

Ph.D., 1986; Cell biology, biochemistry; Lipoprotein/protein biosynthesis/metabolism, secretory path, membrane proteins, posttranslational modifications, pulse/chase, Westerns, cell culture, permeabilized cells, in vitro translation with photocytactivatable amino acids, crosslinking, teaching; Avail. Apr 93; Industry/research/teaching; San Diego area. 2-3252

Ph.D., 1982; Biochemistry, food science, pharmacology; Metabolism/drug isolation using HPLC, LCM-MS/radiolabeling, biotechnology/molecular biology of the glycolytic enzyme yeast pyruvate kinase, protein isolation, biochemical properties, mutagenesis for structure/function; Avail. Apr 93; R&D in academia/nonprofit/industry. 5-3254

Ph.D., 1993 (expected); Biophysics, biomolecular structures, X-ray crystallography; Small molecule structure solution, macromolecule structure refinement, NMR spectroscopy (NOE on nucleosides), quantum chemistry and molecular mechanics computing, Fortran-, C-, programing; Avail. Dec 93; Postdoc. in academia/industry; FI visa. 8-3255

Ph.D., 1993 (expected); Nutrition; Exercise, aging, stable isotopes, glucose metabolism, chromium (minerals), body composition, GC/MS, RIA, atomic absorption (spectroscopy), hyperinsulinemic euglycemic clamp, hydrodensitometry; Avail. Aug 93; Postdoc. in academia/industry; Salary negot.; California. 5-3256

Ph.D., 1993 (expected); Immunology, immunobiology; immunoregulation of macrophages; Cytokine bioassays, cytotoxicity assays, chemiluminescence, tissue culture, immunoelctrophoresis, ELISA, PAGE, PCR, FACS, immunofluorescence, LAL, animal handling, EM; Avail. Aug 93; Postdoc. academia/industry. 6-3258

M.S., 1993 (expected); Nutrition, lipid metabolism, immunology, protein chemistry; Animal surgery, lipid analysis by HPLC, GC, TLC, scintillation counting, atomic absorption/UV spectrophotometer, lymphoid cell culture, lymphocyte membrane protein purification, electrophoresis, Western blotting; Avail. Jun 93; Research in academia; FI visa. 0-3263

Ph.D., 1993 (expected); Biophysics, molecular biology; Colloids, carbohydrates, characterizing, hydrodynamics, light scattering, viscometric, chemical assays, HPLC assays, electron microscopic assays; Avail. Oct 93; Research/postdoc. in academia/industry; Salary negot.; FI visa. 8-3265

Ph.D., 1987; Biophysics; Computer-aided drug design, computational chemistry, conformational analysis, solvent effects, receptor modeling, drug-protein interactions, molecular and protein dynamics, Monte Carlo, free energy calculations, molecular orbital theory, Fortran programming; Avail. Apr 93; Research in industry/academia. 8-3268

Ph.D., 1991; Physiology, ion channel physiology, biophysics; Patch clamp technique, Ca2+ measurement using fluorescent dyes, neuronal dissociation/cell culture, computer programming/modeling, signal transduction, pharmacology, tutored medical/nursing students; Avail. Feb 94; Research in academia; Salary negot. 1-3270

Ph.D., 1993 (expected); Cardiovascular physiology; Lipid/membrane biology, membrane characteristics/cellular functions of vascular smooth muscle cells in atherosclerosis, animal experiments, tissue culture, lipid/membrane analysis by TLC, GC, HPLC, radioisotopic studies, fura, statistics; Avail. Aug 93; Postdoc. academia/industry; PR. 1-3318

Ph.D., 1992; Physiology, pharmacology, cellular biology; Renal prostaglandins, muscarinic receptors, Ach, platelet aggregation, hypertension, isolated heart experiment, cell culture, cardiomyocyte, endothelial cells, smooth muscle cells, assay, PKC, electrophoresis, RIA; Avail. Jul 93; Postdoc/research in academia/industry; PR. 1-3319

Ph.D., 1994 (expected); Protein chemistry, enzymology; Protein purification, enzyme assays, kinetics, pharmacokinetics of enantiomer alcohols/chiral drugs/chiral metabolites by HPLC, organic synthesis/purification, NMR, IR, UV-VIS; Avail. Feb 94; Postdoc./research in academia/industry; Salary negot. 2-3322

Ph.D., 1990; Protein chemistry, molecular biology, enzymology; Purification, assay development, kinetics, ligand binding, DNA binding proteins, PCR, subcloning, expression vector design, site-directed mutagenesis, sequencing, in vitro transcription, translation; Avail. Jun 93; Research in industry; Salary negot. 2-3323

Vol. 7 April 1993

EMPLOYMENT OPPORTUNITIES
Ph.D., 1992; Cardiovascular/pulmonary pharmacology; Isolated blood vessels (tissue bath), pulmonary circulation/hindquarters, radioimmunoassay, endocrinology (estrogens), vascular smooth muscle cell culture, analysis of intracellular calcium (fura-2); Avail. Sep 93; Research in academia/industry; Salary negot.; F1 visa. 5-3324

Ph.D., 1992; Pathology, developmental physiology, cell biology, molecular biology; Surgery (large and small animal, in utero sheep), in vivo hemodynamic measurement, Northern blotting, cloning, library construction, electrophoresis, proteinase activity assays, scanning electron microscopy; Avail. Jul 94; Research in academia/industry; J1 visa. 4-3325

Ph.D., 1988; Nutrition, food science; Nutrient/drug/mineral interactions, lipids/lipoprotein metabolism, animal surgery, in situ/isolated liver perfusion, tissue culture, TLC/GC, AA spectrometry, electrophoresis, radioisotopic/immunoassay, Northern blotting, enzyme assays; Avail. Apr 93; Teaching/research in academia/industry; PR. 5-3326

Ph.D., 1993 (expected); Immunoochemistry, immunology, protein chemistry; MAB production, purification, conjugation, ELISA, RIA, Western blotting, tissue culture, cell adherence, peptide synthesis, protein analysis, circular dichroism, fluorescence, protein purification; Avail. Jul 93; Research in academia/industry; Salary negot. 6-3329

Ph.D., 1993 (expected); Human nutrition; Maternal/infant, international nutrition/nutrition education, human clinical studies, metabolic studies, anthropometric measures, impedance analysis, dietary/socio-economic surveys; Avail. Jul 93; Research in academia/industry; Salary negot. 5-3330

Ph.D., 1993 (expected); Ruminant nutrition; Animal anatomy; protein nutrition, peptides as sources of amino acids in cultured animal cells, cell culture, ovine muscle primary culture, TLC, GC, spectrophotometer, fluorometer, protein assay, peptidase activity assay, statistics; Avail. Sep 93; Postdoc.; Salary negot.; J1 visa. 5-3331

Ph.D., 1993 (expected); Nutrition, anaerobic microbiology; Packed and capillary GC, GFC, batch and semi-continuous flow anaerobic bacterial fermentation, carbohydrate and fatty acid analysis, animal and human nutritional studies; Avail. Jan 94; Research in academia/industry; Salary negot. 5-3332

Ph.D., 1993 (expected); Physiology, neurobiology, endocrinology; Peripheral/cerebral cannulation, pinealectomy, gonadectomy, tissue perfusion, brain perfusion, RIA, histology, teaching assistant in biology, human anatomy/physiology; Avail. Sep 93; Research/teaching in academia/industry; Salary negot.; F1 visa. 4-3334

Ph.D., 1990; Protein chemistry, molecular biology; Protein purification/characterization, HPLC, SDS-PAGE, immunological techniques, in vitro assays, cloning, RT-PCR, library construction, sequencing, Southern/Northern/Western blotting, mutagenesis, tissue culture; Avail. Jun 93; Research in academia/industry; PR. 2-3335

Ph.D., 1993 (expected); Nutrition, molecular biology; Animal/human nutrition, DNA/RNA extraction, mRNA isolation, in vitro translation, Southern/Northern blotting, nonisotopic/isotopic probes/hybridization, PCR, cDNA library, protein purification, 2-D electrophoresis; Avail. Sep 93; Postdoc. in academia/industry; Salary negot.; F1 visa. 5-3336

Ph.D., 1993 (expected); Nutritional biochemistry, mineral, sports nutrition; Copper/zinc metalloenzymes, diet/exercise effects on trace minerals, skinfolds, hydrostatic weighing, BIA, enzyme assays, ELISA, HPLC, GC, electrophoresis, RID; Avail. Sep 93; Research/education in academia/industry; Salary negot.; Washington/Baltimore area. 5-3337

Ph.D., 1993 (expected); Physiology; Whole animal physiology, isolated organ/organ bath techniques, pharmacology, animal surgery, cardiovascular function measurement techniques, teaching graduate/undergraduate physiology courses; Avail. May 93; Postdoc. in academia/industry; Salary negot. 1-3338

Ph.D., 1993 (expected); Physiology; membrane biochemistry; Phospholipid metabolism/phosphorylation, signal transduction, enzyme characterization/kinetics, receptor binding, HPLC, TLC, column chromatography, electrophoresis, autoradiography, pathological models, rat heart surgery, computer; Avail. Oct 93; Postdoc. in academia; Now in Canada. 1-3339

Ph.D., 1988; Human nutrition, food sciences; Statistics, nutrition labeling, nutritional biochemistry, radioisotope technique applied to humans/animals, immunoadsorbant, dietary survey, AA, AE, chemistry, iron metabolism/fortification, dairy processing, sensory evaluation, Macintosh, IBM, VAX, statistics programs; Avail. Jun 93; Teaching/research; PR. 5-3340

M.S., 1993 (expected); Nutrition, physiology, immunology, microbiology; Cell culture, antibody production/purification, protein separation/identification, ELISA, RIA, HPLC, gel electrophoresis, electron microscopy techniques, brain tissue lesion, dietary assessment, animal surgery; Avail. May 93; Research in academia/industry; F1 visa. 0-3341

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**PLACEMENT SERVICES, 1993**

The Federation of American Societies for Experimental Biology operates year-round placement services to match candidates seeking postdoctoral training or permanent positions in the life sciences with recruiting employers from academia, government and industry. Most candidates are doctoral level scientists seeking permanent positions or graduate students seeking postdoctoral training. Individuals with master's and bachelor's degrees are not excluded from participation.

At four meetings of Federation societies in 1993, formal interviewing opportunities are offered, to include:

- Distributing to each employer a standardized one-page registration form prepared by each participating candidate listing training, interests, references, publications.
- Posting position vacancy descriptions for review by the entire participating candidate population.
- Providing and staffing a system by which employers and candidates interested in interviewing one another may make such interest known.
- Scheduling interviews for employers, notifying candidates and providing formal interview settings (5256 interviews scheduled in 1992).

Candidates are available throughout the year and may be found by potential primary employers in two ways:

- Obtaining identification of those who advertise under Positions Desired in the Employment Opportunities section of *The FASEB Journal*.
- Requesting a search of candidate files. To do so, provide a description of desired qualifications. Potential candidates will be discussed telephonically with employer before payment is requested.

For more information about procedures, size of candidate population and other details, contact Placement Service at address/telephone number shown in standing matter, this section.
DNA. The homogenizer, Omni-TH, hand-held tissue homogenizer, which features a lightweight, ergonomic design ideally suited for hand-held processing of plant or animal tissue samples. Homogenize, disrupt, extract, or tear tissue samples starting at 0.3 ml right in a microtube, up to 100 ml. EZ-Connect rotor stator generator probes come in 5, 7, and 10 mm diameter and are available in stainless steel or leech-resistant titanium. Disposable plastic generator probes can also be used with the unit. The Omni-TH can be easily post mounted with an optional stand assembly. The basic unit offers a powerful internal speed control with infinitely variable speeds of up to 30,000 rpm. Omni International, Inc., 6530 Commerce Ct., Ste. 200 East, Gainesville, VA 22065, USA.

The MYSTAIRE ductless fume enclosures feature the exclusive EVERSAFE continuous filtration monitor, which senses hydrocarbon output and air-velocity levels, alerting the user with audible and visual alarms. Carbon filters are monitored by a semiconductor device that senses hydrocarbon breakthrough, and signals the monitor to alert the user. The operator can also input the total number of hours a filter should be used; the alarm alerts the user when the filter should be checked or changed. The enclosures are ideal for spraying, reagent preparation, acid handling, and other common laboratory procedures. Heat Systems, 1938 New Highway, Farmingdale, NY 11735, USA

Plasmid-Safe ATP-Dependent DNase provides researchers with a fast, easy method of selectively and completely removing contaminating bacterial DNA in preparations of plasmid or cosmid DNA. At neutral pH, the enzyme digests linear double-stranded (ds) DNA and both closed-circular and linear single-stranded DNA, but has no activity on nicked or closed circular ds DNA. The enzyme will remove contaminating bacterial DNA in any plasmid preparation, effectively eliminating the possibility of subcloning or sequencing contaminant DNA. Plasmids or cosmids treated with Plasmid-Safe DNase will also yield the maximum possible transformation efficiencies. The enzyme can be conveniently inactivated simply by incubation at 70°C for 15 min. Epicentre Technologies, 1202 Ann St., Madison, WI 53713, USA.

The first artificial capillary module designed specifically for the expansion of mixed peripheral blood lymphocytes (PBL) and purified populations of CD8+ lymphocytes is available. These modules are used with the CELLMAX QUAD Artificial Capillary Cell Culture System, and are designed to support the culture of up to 5 x 10^9 lymphoid cells. Includes recommendations on seeding density, media requirements, feeding schedules, and perfusion rates. These ready-for-culture modules save time, space, and resources in optimizing start-up cultures of PBL and CD8+ lymphocytes. Cellecta, Inc., 12321 Middlebrook Rd., Germantown, MD 20874, USA.

A column is available for analysis of catecholamines by HPLC. A combination of silica deactivation, high carbon loading, and exhaustive end-capping creates a material that allows separation of most catecholamines with high efficiency and excellent quantitation. This rugged packing material is also resistant to fouling by relatively "dirty" biological samples. Columns are available in sizes ranging from microbore to preparative. Phenomenex, Inc., 2320 W. 205th St., Torrance, CA 90501, USA.
The first commercially available complete assay kits for measuring cytochrome P450 induction based on non-radioactive Western blotting using enhanced chemiluminescence is now available. The ECL™ cytochrome P450 assay range covers five P450 isoenzymes as well as P450 reductase. The kit methodology follows a standard, easy-to-use protocol that uses ECL detection for high sensitivity and reliability. The method is rapid, with hard copy results recorded on film within 2 days. Amersham Corp., Life Science, 2636 South Clearbrook Dr., Arlington Heights, IL 60005, USA.

The ADM2000 intelligent flowmeter is the first real alternative to bubble flowmeter technology. ADM2000 offers state-of-the-art electronics that measure flow rates instantly and continuously, with no messy soaps, fragile glass, or bubbles. These portable, easy-to-use devices accurately measure gas flowrates to within ± 3% and handle flow rates from 0.1 mL/min to 1000 mL/min. Whereas bubble-type flowmeters suffer from errors arising from water vapor (as much as 4% at room temperature), these flowmeters use patented, acoustic displacement technology. No water vapor is introduced; no correction factors are necessary. Auto-compensating circuitry provides correction to standard temperature and pressure, allowing mass flow measurements to be made without the need to calibrate for a particular gas under specific temperature and pressure conditions. Ideal for applications requiring continuous data logging. Features include mass flow, volumetric flow, and continuous operation mode. J&W Scientific, 91 Blue Ravine Rd., Folsom, CA 95630, USA.

The entry deadline for the 1993 Nikon International Small World competition is June 30, 1993. The world-renowned photo competition has been run annually by Nikon Inc., Instrument Group since 1973 to honor excellence in photography through the microscope. Prizes include a $4,000 vacation trip and a wide array of Nikon products. Each participant may submit up to three 35 mm transparencies of photos taken using a light microscope. Entries will be judged on originality, informational content, technical proficiency, and visual impact. All varieties of specimens and illumination techniques are permitted, and video-generated and computer-enhanced images are encouraged. The use of Nikon equipment is not required. For more information write to Nikon Inc., Instrument Group, 1300 Walt Whitman Rd., Melville, NY 11747, USA.
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