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<td>Interactions of the Endocrine and Cardiovascular Systems in Health and Disease</td>
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<td>AAP</td>
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<td>AAP National Office 9650 Rockville Pike Bethesda, MD 20814 Tel: 301-530-7130 FAX: 301-571-1879</td>
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<td>ASCB</td>
<td>Annual Meeting</td>
<td>San Diego, California</td>
<td>ASCB National Office 9650 Rockville Pike Bethesda, MD 20814 Tel: 301-530-7153 FAX: 301-530-7139</td>
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<td>FASEB</td>
<td>Annual Meeting (APS, ASBMB, ASPET, AAP, AIN, AAI)</td>
<td>December 3rd, December 28th (Abstract Withdrawals) February 22nd, March 5th, March 15th</td>
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The FASEB Annual Meeting is scheduled April 21-25, 1991 in Atlanta, Georgia. **All six** corporate Societies will participate. The Biomedical Engineering Society (BMES), Society for Experimental Biology and Medicine (SEBM), Clinical Immunology Society (CIS), Society for Mucosal Immunology (SMI), American Association of Veterinary Immunologists (AAVI) and the International Society for Bioelectricity will again take part in the meeting as Guest Societies. Members of the American Society for Cell Biology (ASCB), an affiliate FASEB Society, are invited to submit abstracts for the Atlanta meeting.

The **FOCUS** of the meeting will be **MOLECULAR ASPECTS OF EXPERIMENTAL BIOLOGY**.

The FASEB Annual Meeting has been certified for Continuing Medical Education Category I credits on an hour-for-hour basis.

For those who do not register in advance, on-site registration will open Sunday, April 21. Scientific sessions are scheduled Monday, April 22 through 6:00 PM Thursday, April 25. The **deadline for submission of abstracts is Monday, December 3, 1990. The deadline for advance registration is Friday, February 15, 1991.**
Volunteered Review Articles in
The FASEB Journal

The Editorial Board welcomes proposals for state-of-the-art reviews on topics not currently being covered in the Journal.

Prospective authors should send a one-page summary of the proposed review, not a completed review, to the Editor-in-Chief, Dr. W. J. Whelan, The FASEB Journal, PO. Box 06129, Miami, FL 33101-6129, USA. For more information about review articles, see Reader Service Card—AN INVITATION—at the end of the Journal.

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

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

FASEB Public Service Award

FASEB is actively soliciting nominations for the 1991 FASEB Public Service Award. The coveted award goes annually to individuals who have made outstanding contributions to the cause of biomedical research through their achievements in such fields as government, public affairs, writing, the arts, and other related areas.

The awardee is selected by the Federation Board of Directors. The award is presented at a Board reception during the FASEB Annual Meeting.

Previous winners were: Dr. Frederick Goodwin, administrator of the Alcohol, Drug Abuse and Mental Health Administration; Drs. James Wyngaarden and James Shannon, former directors of NIH; Ann Landers, columnist; Mary Lasker, philanthropist; Dr. Lewis Thomas, author and researcher; Representative William Natcher; and, Senator Lowell Weicker, Jr.

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<tr>
<td>ARC-145</td>
<td>AMINOISOBUTYRIC ACID, [1(^{14})C]</td>
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<td>$525</td>
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<td>ARACHIDONIC ACID [5,6,8,9,11,12,14,15-(^3)H]</td>
<td>250 μCi</td>
<td>415</td>
<td>460</td>
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<td>ART-103</td>
<td>DEOXY-D-GLUCOSE [1,2-(^3)H]</td>
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<td>ART-116</td>
<td>INOSITOL, MYO 2-(^3)H (90% Ethanol)</td>
<td>1 mCi</td>
<td>550</td>
<td>595</td>
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<td>ART-116A</td>
<td>INOSITOL, MYO 2-(^3)H (Sterile water)</td>
<td>5 mCi</td>
<td>1395</td>
<td>1600</td>
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<td>ARC-232</td>
<td>INOSITOL, MYO [(^13)C(U)]</td>
<td>5 μCi</td>
<td>385</td>
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<td>METHYL-D-GLUCOSE, 3-0 [methyl-(^3)H]</td>
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<td>ART-141</td>
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<td>ART-198</td>
<td>OLEIC ACID [9,10-(^3)H(N)]</td>
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<td>560</td>
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<td>ARC-172</td>
<td>PALMITIC ACID [1(^{14})C]</td>
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<td>ARC-129</td>
<td>PALMITIC ACID [9,10-(^3)H(N)]</td>
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<td>ARC-258</td>
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POSITIONS AVAILABLE — Classified advertisement: $25.00 per line (70 characters), $200.00 (8 line) minimum. Display advertisement: $600.00 for ¼ page, 3½ inches × 4½ inches; $900.00 for ½ page, 3½ inches × 9½ inches (vertical) or 7½ inches × 4½ inches (horizontal); $1200.00 for full page, 7½ inches × 9½ inches. (For display ads, add 5% if mechanical not submitted.) Advertisements will be published in next available issue unless otherwise specified. Deadline for receipt of copy is 5th day of month before publication. Payment or purchase order is required with insertion copy. Advertisements are noncommissionable to agents; no cash discounts are allowed. Blind advertisements are not accepted.

POSITIONS DESIRED — Candidates registered with FASEB Placement Service are allowed one advertisement of five lines, each containing 70 characters including spaces. The issue in which advertisement appears will be based on date of receipt of copy. Fee for publication in additional issues: $10.00 per issue.

Primary employers desiring identification and additional details concerning Positions Desired advertisers should write to address below, indicating hyphenated number appearing as last element of advertisement; a one-page application from advertiser(s) will be provided immediately. Advance telephonic determination of availability of advertisers from earlier-than-current issues is recommended. Employers not currently registered with Placement Service for annual meeting participation are charged a minimum fee of $30.00 for identification of up to 10 advertisers, plus $3.00 for each above 10, payable in advance to FASEB Placement Service.

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

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

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

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

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

Address all correspondence to FASEB Placement Service, 9650 Rockville Pike, Bethesda, MD 20814. (301) 330-7020

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

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

Display advertisement
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$1000.00 for ½ page, 3½ inches × 9½ inches (vertical) or 7½ inches × 4½ inches (horizontal)
$1400.00 for full page, 7½ inches × 9½ inches
(for display ads, add 5% if mechanical not submitted)

RESEARCH ASSOCIATE(S). Department of Chemistry and Biochemistry, University of Delaware. Ph.D. in biophysics or biochemistry, or B.S. or M.S. degree with at least five years experience in a research laboratory. Work on NIH-funded project on interfacial catalysis by phospholipase A2 on bilayers. The work involves use of modeling of kinetic schemes for interfacial catalysis, fluorescence and UV-visible spectroscopy, autoradiation, HPLC, design and synthesis of inhibitors, protein modification. Demonstrated expertise (publications) in at least two areas required. Salary: up to $25,500 (including benefits). Job #804111, Division of Employment and Training, Department of Labor, 3301 Lancaster Avenue, P.O. Box 2168, Wilmington, DE 19805. Deadline for receipt of application (with at least two letters of recommendation): four weeks after the publication date.

CHAIR. The College of Medicine of the University of Arkansas for Medical Sciences solicits applications and nominations for the position of Professor and Chair, Department of Microbiology and Immunology. The vacancy has been created by the impending retirement of the incumbent. The Department presently consists of 10 full-time and five part-time faculty with expansion planned for the future. Active research and educational programs in immunology, molecular virology and chlamydiology are ongoing. Applicants and nominees should have documented success in research with a record of extramural grant funding as well as experience in education and administration. Applications from women and minority candidates are actively encouraged. Please send nominations and applications by November 15, 1990 to Chair, Microbiology/Immunology Search, Office of the Dean, Slot 550, College of Medicine, University of Arkansas for Medical Sciences, 4301 W Markham, Little Rock, AR 72205. The University of Arkansas is an equal opportunity/affirmative action employer.
MOLECULAR BIOLOGIST. Full-time faculty at junior level. Applicants should have Ph.D. in molecular biology, biochemistry, or related area and postdoctoral experience in molecular biology. The new faculty member is expected to develop a strong independent research program and to interact with investigators studying cell regulation and the function and dysfunction of the auditory system. The successful candidate will also be considered for a joint appointment in the Department of Biological Chemistry and will have access to facilities for all aspects of molecular biology research. Please send CV, statement of research interests, recent publications and names of three references to Dr. Jochen Schacht, Search Committee Chair, Kresge Hearing Research Institute, The University of Michigan, 1301 E Ann, Ann Arbor, MI 48109-0506. Women, minority and handicapped applicants are welcome and encouraged.

POSTDOCTORALS. The program in Hearing and Chemical Senses provides the opportunity to pursue research related to sensory mechanisms and disorders. The program is supported by a faculty with closely related scientific interests in sensory neuroscience, cell biology, biochemistry, neurobiology, physiology, psychology and psychobiology. Postdoctoral fellows work in association with members of the faculty and participate in seminars and other instructional opportunities afforded by the departments participating in the program. For further information, contact Jochen Schacht, Ph.D., Program Director, Kresge Hearing Research Institute, The University of Michigan, 1301 E Ann, Ann Arbor, MI 48109-0506. Women, minority and handicapped applicants are welcome and encouraged.

RESEARCH ASSOCIATE/POSTDOCTORAL. Ph.D., 1986–1990. Molecular biology, biochemistry, rodent surgery, RIA, SDS-PAGE, tissue culture techniques, PCR, Southern/Northern/Western in situ hybridization, receptor ligand binding and affinity. Two-year appointment; possible extension. Please send CV and three letters of reference to Debbie Jernigan, Department of Medicine, Emory University School of Medicine, 1364 Clifton Road, Suite F410, Atlanta, GA 30322.

RESEARCH ASSOCIATE, ANATOMY/PHYSIOLOGY. Available immediately. The Department of Rehabilitation Medicine, Jefferson Medical College, Thomas Jefferson University, seeks a Ph.D. anatomist/physiologist with interest in spinal cord injury to conduct research in the animal laboratory of an existing federally-funded spinal cord injury center dedicated to the investigation of neural recovery and enhancement. The individual hired will perform research in peripheral nerve sprouting as it relates to partial denervation caused by damage to the spinal cord and/or nerve roots. Other responsibilities will include overseeing the animal laboratory and occasional teaching to medical students, residents and allied health professionals. To apply, send CV and the names and telephone numbers of three references to G. J. Herbison, M.D., 1015 Walnut Street, Room 617 Curtis Building, Jefferson Medical College, Thomas Jefferson University, Philadelphia, PA 19107. We are committed to a smoke-free environment. Equal opportunity employer.

FACULTY, BIOLOGICAL CHEMISTRY. UHS/Chicago Medical School. Two tenure-track positions are available in the broad area of structure and function studies of proteins. Areas of interest include but are not limited to physical biochemistry, structural genomics, mechanisms, and/or mutagenesis of biologically important proteins. Proficiency in membrane receptors, nucleic acid binding proteins, cytoskeletal proteins or enzymes. Outstanding and experienced candidates at the assistant professor level as well as more senior level investigators are invited to apply. The successful applicants will be expected to establish their own active research program and to interact with other investigators in the exciting research environment and facilities of the school, located in a pleasant North Shore suburb 30 miles north of the Loop. Send letter of application, CV, names of references and description of research to Dr. K. E. Neet, Chairman, Department of Biological Chemistry, UHS/Chicago Medical School, 3333 Green Bay Road, North Chicago, IL 60064. An equal opportunity/affirmative action employer.

POSTDOCTORAL AND PREDOCTORAL FELLOWSHIPS. The University of South Florida, Tampa, FL, is seeking applicants for postdoctoral and predoctoral fellowships in immunology, microbiology and psychoneuroimmunology for studies of various aspects of interactions of the nervous and immune systems as well as effects of drugs of abuse on immunity. Stipends are $8,500.00 plus tuition for first year postdoctoral students and $18,500.00 for first year predoctoral positions. Applicants should have appropriate background and experience. U.S. citizenship or a permanent visa required. A letter of interest, CV, and three references should be sent to Dr. Herman Friedman, Chairman, Department of Medical Microbiology and Immunology, MDC Box 10, University of South Florida, 12901 Bruce B. Downs Boulevard, Tampa, FL 33612. The University is an equal opportunity/affirmative action employer.

POSTDOCTORAL TRAINING, CELLULAR BIOLOGY OF THE HEART. NIH-funded postdoctoral positions for training in cellular biology of the heart are available in the Department of Cellular and Molecular Physiology at the College of Medicine of Penn State University. A multidisciplinary program is offered to provide a background in the cell biology, molecular biology, biochemistry and physiology of cardiac disorders, in addition to specific laboratory training. The research interests of the training faculty, who are members of the Departments of Physiology and Medicine, include the role of polymers, the extracellular matrix and other regulatory factors in control of cellular growth and differentiation; regulation of protein and RNA synthesis and degradation; transmembrane signalling mechanisms; receptor-ligand interactions; control of cellular transport; regulatory mechanisms in excitation-contraction coupling; and mechanisms of neural regulation of vascular function. Highly-qualified U.S. citizens may hold a Ph.D. or M.D. may apply by submitting CV, a statement of career goals and names of three references to E. Eugene Rannels, Ph.D., Program Director, Department of Cellular and Molecular Physiology, The Milton S. Hershey Medical Center, Penn State University, P.O. Box 850, Hershey, PA 17033. Penn State University is an equal opportunity/affirmative action employer. Women and minorities encouraged to apply.

RESEARCH ASSISTANT PROFESSOR. Responsibilities include research and teaching. Position is available for Ph.D. with three or more years of postdoctoral experience. Expertise using cell and molecular biological approaches to study receptor-coupled gene expression in smooth muscle is preferred. Send CV and three letters of reference to M. M. Grunstein, M.D., Ph.D., Division of Pulmonary Medicine, Children's Hospital of Philadelphia, University of Pennsylvania, 34th Street and Civic Center Boulevard, Philadelphia, PA 19104. The University of Pennsylvania is an equal opportunity/affirmative action employer.

POSTDOCTORAL, MOLECULAR ENDOCRINOLOGY. NIH-funded program on autocrine regulation of parathyroid secretion by chromogranins and peptides. Research utilizes cell biology, protein chemistry, molecular biology. Exceptional research environment in a major medical/dental health sciences center. Faculty appointment possible for qualified candidate. Send resume, three references to Dr. David V. Cohn, Chair, Department of Oral Health, University of Louisville, Louisville, KY 40292 (502)388-7507. Affirmative action/equal opportunity employer.

POSTDOCTORAL, MOLECULAR BIOCHEMISTRY AND MOLECULAR BIOLOGY. The University of Miami School of Medicine is seeking applications and nominations for the position of Professor and Chairman of the Department of Biochemistry and Molecular Biology. The person filling this position will have the unique opportunity to greatly expand the department's capabilities in the area of molecular biology. Substantial funds for the development of the department are available through a generous award from the Lucille P. Markey Charitable Trust as well as considerable funding from the University. In addition to funding the new chairman, these resources will be used to support at least ten new investigators, as well as start up funds and major new equipment. The department will occupy a new seven story building which will be completed in the fall of 1990. The department includes 16 faculty members (tenure-track) with full-time primary appointments and a well established graduate program with 43 trainees.

The applicant must have a Ph.D., M.D. or equivalent degree, be internationally recognized for contributions to molecular biological research, have a commitment to educational activities, and have clearly demonstrated leadership and administrative capabilities. The successful candidate is expected to be an outstanding scientist with a strong ongoing, independent and well-funded research program. This person will be expected to promote the development of research capabilities of the department, the medical school and the university, and to attract outstanding scientists to the faculty.

Interested applicants should submit a CV including the names of three references to Dr. James D. Potter, Search Committee Chairman, Department of Pharmacology, University of Miami, P.O. Box 016189, Miami, FL 33101. An equal opportunity/affirmative action employer.

Vol. 4 October 1990 EMPLOYMENT OPPORTUNITIES 3171
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POSTDOCTORAL. Available immediately for Ph.D. trained in glycoprotein and/or carbohydrate biochemistry to study role of glycoprotein oligosaccharides in membrane assembly and investigate presence of endogenous lectins in vertebrate retinas. Must have experience in HPLC and column chromatography of proteins/peptides and carbohydrates. Salary negotiable. Send CV and names of three references to Dr. Steven Flieder, Bethesda Eye Institute, St. Louis University School of Medicine, 3653 Vista, St. Louis, MO 63110.

NEUROSCIENCE. University of California, Santa Barbara. The Department of Psychology announces a tenure-track position at the assistant professor level in neuroscience, effective fall, 1994. Responsibilities include teaching at both undergraduate and graduate levels and supervision of students in research. Ph.D. required at time of appointment. Postdoctoral research experience and significant skills in neuroendocrinology/endocrinology and behavior desired. Potential areas of interest within the broad field of neuroendocrinology/endocrinology include neural control of endocrine secretions, the effects of hormones on the nervous system and/or physiology and behavior, hormones and development, or psychoneuroimmunology. Evidence of excellence in teaching and research is required. Salary and level depend on qualifications. Submit CV and reprints and arrange for three letters of recommendation to be sent to Biopsychology Search Committee, Department of Psychology, University of California, Santa Barbara, CA 93106. Applications must be received by December 15, 1990. UCSB is an equal opportunity/affirmative action employer. Proof of U.S. citizenship or eligibility for U.S. employment will be required prior to employment (Immigration Reform and Control Act of 1986).

POSITIONS DESIRED

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

Ph.D., 1985; Physiology; Chronic hemodynamic studies, electrophysiology, cellular administration of compounds, microsurgical and lesioning techniques in rat brain, micropunch, immunocytochemistry, receptor autoradiography, RFLP, HPLC; Director, Genetic Breeding Core, industrial & supervisory experience; Avail. October 1990; Industry - 1-0535

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

Ph.D., 1987; Protein biochemistry, pharmacology; Development of HPLC and HPCE of proteins, protein/ enzyme purification at analytical and preparative scale, conventional/affinity chromatography, antibody preparation, Western blotting, protein digestion, peptide separation; Avail. September 1990; Research in industry; Salary negot. - 2-0832

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

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

Ph.D., 1986; Immunology, microbiology, virology; Tissue culture, MAb production characterization, immunoprecipitation, lodination, isotope handling, Western blots, bioassays, ELISA, RIA, immunofluorescent techniques (FACS and microscopy), chromatography, polyacrylamide gel electrophoresis; Avail. January 1991; Research/industry; Salary negot. - 6-0853

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

Ph.D., 1987; Nutrition, toxicology, biochemistry; Nutrient effects on xenobiotic metabolism, lipid biochemistry, oxidative stress, enzymatic assays, drug metabolite analysis, radioisotope techniques, animal surgery, diet formulations; Avail. November 1990; Research position in academia/industry; Salary negot. - 5-0991

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

Ph.D., 1988; Molecular virology, immunology, receptor biology; Site-directed mutagenesis, DNA sequencing, cell culture, retrovirus infection of cells, production/assay of TNF, IFN α/β and γ EGF, TGFα, PDGF, protein purification, molecular sieve, DEAE, CMC, SDS-PAGE; Avail. November 1990; Post- doc. in academia/industry; Salary negot. - 6-0995

Ph.D., 1990 (expected); Biochemistry, physiology; Signal transduction (calcium and protein phosphorylation), enzyme and membrane protein purification, in vitro and in vivo bioassays, fluorescent and radiolabeled protein binding, gel electrophoresis/autoradiography; Avail. December 1990; Industry; government; Salary negot. - 2-0998

Ph.D., 1984; Microbiology, biochemistry, parasitology; Protein purification, HPLC, peptide analysis, protease assays, ELISA, Western, cDNA screening, sequencing, publications, laboratory management, grant writing; Avail. October 1990; Industry; Salary negot. - 2-0999

Ph.D., 1989; Molecular biology, biochemistry, virology, oncogene research; Tissue culture, site-directed mutagenesis, cloning, sequencing, colony hybridization, Western/Southern/Northern blotting, in vitro replication and transcription assays, DNA transfections, PCR; Avail. February 1991; Academia/industry; Salary negot. - 2-099A

Ph.D., 1990; Enzymology, biophysical chemistry, physical organic chemistry; Bacterial cell fermentation, enzyme purification, gel electrophoresis, enzyme kinetics, NMR/EPR enzyme systems; 7 years industrial experience; Avail. October 1990; Industry; research/postdoc.; Salary negot. - 2-099B
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The software also adds extensive quantitation capability to the present array of spectral scanning, photometric, and time-course measurement modes. Shimadzu Scientific Instruments, Inc. Circle no. 55.

Nenquest receptor kits for targeted drug discovery allow researchers to screen chemical libraries and natural products reliably, quickly, and conveniently. Potential pharmaceuticals can be identified on the basis of a compound’s interaction with specific receptors. The receptor kits eliminate the need to develop, characterize, and validate assays. They provide complete sample confidentiality and control. All components, including stabilized reagents and optimized assay protocols, are provided with the kits. Receptors are tested and validated by complete competition assays, radioligand saturation analysis and pharmacological profiles.

The kits provide performance and accuracy standards comparable to RIA and ELISA assays. Nenquest kits are fully validated in Nova Pharmaceuticals “NovaScreen” for high throughput screening. Under typical conditions, it is possible to run 1,000 assay tubes in under 5 hours.

Assays for complement C5α, leukotriene B4, platelet-derived growth factor (PDGF), tumor necrosis factor-alpha (TNFa), glutamate NMDA, inositol 1,4,5-trisphosphate (IP3), angiotensin II type 2 and benzodiazepine are among the first in the series of “Nenquest” kits which may be used by researchers to find potential drugs for hypertension, inflammation, neural degeneration and psychiatric disorders. The kits come in 100- and 500-tube sizes. Kits for other receptors including endothelin, interleukin-1 and -2 are under development. Du Pont. Circle no. 53.

Purify previously uncharacterized proteins, eliminate textile dye-based adsorbents from enzyme purifications, improve established procedures, confirm results of existing protocols, and reduce expenses by prolonging the lifetime of natural ligand adsorbents with MIMETIC™ affinity sorbents. And the Protein Isolation Kit for Sorbent Identification (PIKSI™) allows selection of the most appropriate biomimetic affinity gel and mobile phase conditions usually in less than 30 minutes.

Up to 40 mg of protein per milliliter of adsorbent can be loaded onto a column. Resistance to strong alkali allows columns to be re-used almost indefinitely by permitting cleaning and depyrogenation with IM sodium hydroxide. Strong covalent bonds between the synthetic, computer-designed ligands and the matrix virtually eliminate contamination due to leakage of the affinant. Lexton Scientific International. Circle no. 54.

Jouan’s line of mechanically refrigerated vacuum/vapor traps, designed to protect vacuum pumps from harmful vapors, are available in two operating temperatures: −60°C and −105°C. The −60°C trap is for pumping aqueous-type solvent systems; the −105°C trap is designed to condense organic solvents.

A built-in temperature sensor prevents the pump from operating if the vapor trap is out of temperature range. The traps can be used with the Jouan RC centrifugal vacuum concentrator systems, or with other manufacturer’s vacuum concentrator systems, or for other applications where the vacuum pump must be protected from corrosive substances. Jouan. Circle no. 52.

The A.S.A.P.™ Kit system of columns and buffers offers a fast, convenient way to purify intact, high molecular weight genomic DNA without using organic solvents. A.S.A.P. columns quickly and efficiently purify DNA from a variety of sources. The column-purified DNA is ready immediately for restriction enzyme digestion and can be used in Southern hybridization (i.e., RFLP), DNA polymerase chain reactions, cloning, and other procedures. Boehringer Mannheim Corp. Circle no. 56.

Protein kinase C inhibitor, calphostin C, is a newly isolated compound from Cladophorium cladophorides. It is the first specific inhibitor of PKC with high potency; the IC50 value is 0.05 μM. Kamity’s staurosporine is the most potent...
inhibitor of protein kinase C available; calphostin C is the most specific protein kinase C inhibitor known.

Calphostin C

The unique mechanism of action for calphostin C inhibits the regulatory domain of the protein kinase C rather than the more tightly conserved catalytic domain. Calphostin C does not compete with Ca²⁺ nor phospholipid binding, but does inhibit ⁴²PDBu binding to protein kinase C. The three isoforms of protein kinase C, α, β, and γ, have been shown to be inhibited equally. Kamiya Biomedical. Circle no. 46.

Palytoxin, one of the most potent marine toxins, is available for membrane research. A large, very complex molecule with lipophilic and hydrophilic properties, palytoxin induces powerful membrane depolarization and ionic channeling. It has been reported to be a non-TPA-type tumor promoter, hemolysin, histamine releaser as well as a potent inhibitor of sodium-potassium ATPase and a cation ionophore. Kamiya Biomedical. Circle no. 47.

Literature

The Scanning-Probe Microscope Book describes the evolution of several types of probe microscopes that have been developed in this class of surface science instruments. The book details the theory of operation of the scanning tunneling microscope (STM) and is an overview of the major components of the STM and their interaction. Although various scanning-probe microscopes are intended for different environments and applica-

Brochure for fast separation of high molecular weight proteins contains a variety of applications for the gradient separation of closely related proteins. The PRP-∞ columns separate six proteins in 60 sec; keep peaks narrow with short separation times (60 sec); and separate proteins that differ by only a few amino acids.

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21-25 October 1990. Third North American International Society for the Study of Xenobiotics Meeting on Modern Perspectives in Xenobiotic Metabolism, San Diego, California, USA. (Ms Nancy Holohan, USX Administration, PO Box 3, Cabin John, MD 20818, USA)

21-26 October 1990. International Congress on Obesity, Kobe, Japan. (Prof. Yuuaka Ohnura, Dept. of Physiology, Sch. of Med., Kyushu U, Fukuoka 812, Japan)


24-26 October 1990. International Symposium on Biologic Product Freeze-Drying and Formulation, Bethesda, Maryland, USA. (Dr. J.C. May, 6800 Rockville Pk., Bethesda, MD 20892, USA)

25-27 October 1990. Modulation of Respiratory Patterns: Peripheral and Central Mechanisms, Lexington, Kentucky, USA. (Dr. T. Frazier, Dept. of Physiology and Biophysics, U. of Kentucky, Lexington, KY 40536-0084, USA)

26-31 October 1990. 6th International Symposium on Immunobiology of Proteins and Peptides, Scottsdale, Arizona, USA. (M.Z. Atlas, Dept. of Biochemistry, Baylor Coll. of Med., Houston, TX 77030, USA)


28-October-2 November 1990. Annual Meeting of the Society for Neuroscience, St. Louis, Missouri, USA. (Nancy Bea, Executive Director, Society for Neuroscience, 11 Du Pont Circle, NW, Ste. 300, Washington, DC 20036, USA)

29-31 October 1990. American College of Toxicology Annual Meeting, Orlando, Florida, USA. (Alexandra Vemura, ACG, 9650 Rockville Pk., Bethesda, MD 20814, USA)


2-5 November 1990. American Society for Gravitation and Space Biology 6th Annual Meeting, Louisville, Kentucky, USA. (Donald Borm, AIBS, Special Science Programs, 730 1st St., NW, Washington, DC 20001, USA)

2-5 November 1990. Chinese Physiological Society (Taiwan, ROC)/American Physiological Society Joint Meeting, Taipei, Taiwan. (Dr. Martin Frank, CPS-APS Joint Meeting (APS), 9650 Rockville Pk., Bethesda, MD 20814, USA)


8-11 November 1990. 5th Annual Conference of Clinical Immunology and Clinical Immunology Society, Associated Meetings, Chicago, Illinois, USA. (Stephanie Vahl, Clinical Immunology Society, Slack Inc., 6900 Grove Rd., Thorofare, NJ 08086, USA)


14-20 November 1990. 21st Biennial Meeting of the International Society for Free Radical Research: Oxidative Damage & Repair, Pasadena, California, USA. (SFRF International/SASP, 800 Westpark Dr., Ste. 100, McLean, VA 22102, USA)

16-20 November 1990. The Gerontological Society of America, Boston, Massachusetts, USA. (GSA, 1275 K St., NW, Ste. 350, Washington, DC 20003-4906, USA)

22-23 November 1990. Clinical Metabolism and Nutritional Support Group Meeting of the Nutrition Society, Manchester, United Kingdom. (Dr. A. M. Prentice, Dinn Nutrition Unit, Milton Rd., Cambridge CB4 1XJ, UK)

22-23 November 1990. Cell Movement, Antwerp, Belgium. (Belgian Society for Cell Biology, c/o Dr. F. Harrisson, RUCA, Dept. of Anatomy and Embryology, Groenenborgerlaan 171, B-2020, Antwerp, Belgium)


25-28 November 1990. The Annual Scientific Meetings of the Nutrition Society of Australia, Adelaide, South Australia. (Dr. Graeme McIntosh, CSIRO Div. of Human Nutrition, Kintore Ave., South Australia, Australia 5000)

26-29 November 1990. Materials Research Society Fall Meeting, Boston, Massachusetts, USA. (Mark Alper, Center for Advanced Materials, U. of California, Berkeley, CA 94720, USA)

26-30 November 1990. FEBS 7th International Symposium on Enzymology of Nuclear Acids Including Gene and Protein Engineering, Bratislava, Czechoslovakia. (Dr. J. Svec, Inst. of Molecular Biology, Slovak Academy of Sciences, Dubravacka cesta 21, 842 51 Bratislava, Czechoslovakia)

27-28 November 1990. Chemometrics in Pharmaceutical and Biomedical Analysis, Stockholm, Sweden. (Swedish Academy of Pharmaceutical Sciences, P.O. Box 1126, S-111 83 Stockholm, Sweden)

2-4 December 1990. International Symposium on Advances in Perinatal Thrombology, Longboat Key, Florida, USA. (U. of S. Florida Col. of Med., Dept. of Pediatrics, Box 15CE, Tampa, FL 33612-4790)

2-9 December 1990. XX International Ornithological Congress, Christchurch, New Zealand. (Ben D. Bell, Secretary-General, XX International Ornithological Congress, Zoology Dept., Victoria U., Private Bag, Wellington, New Zealand)

4-7 December 1990. Growth Factors and Their Receptors in Cancer: Basic Mechanisms and Therapy, Houston, Texas, USA. (1990 Research Symposium, Conference Services-HMB 131, UT M.D. Anderson Cancer Ctr., 1515 Holcomb Blvd., Houston, TX 77030, USA)

5-7 December 1990. 8th Symposium of the Federation of Asian and Oceanian Biologists, Dhaka, Bangladesh, (Secretariat, 8th FAOB Symposium, Bangladeshi Biochemical Society. P.O. Box 4225, Dhaka 1000, Bangladesh)


10-12 December 1990. Multiple Risk Factors in Cardiovascular Disease, Washington, DC, USA. (Dr. Marjorie G. Horning, Baylor Coll. of Med., One Baylor Plaza, Houston, TX 77030, USA)

18-20 December 1990. Birmingham Meeting of The Biochemical Society, Birmingham, United Kingdom. (Meetings Officer, The Biochemical Society, 7 Warwick Rd., London WC1R 5DP, UK)


13-14 December 1990. 6th Annual Symposium on Biochemistry: Protein Targeting and Membrane Traffic, London, United Kingdom. (Mrs. B. Cavilla, Institute of Biology, 20 Queensberry Pl., London SW7 2BZ, UK)

12-18 January 1991. UCLA Symposium: Transgenes, Development and Disease, Tamarron, Colorado, USA. (Heine Westphal and William Drahkin, UCLA Symposia, 2032 Armacost Ave., Los Angeles, CA 90025, USA)
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, P.O. Box 1738, 3000 DR Rotterdam, The Netherlands)


15-18 September 1991. FEBS 3rd Meeting of European Society for Pigment Cell Research, Amsterdam, The Netherlands. (Dr. S. Pavel, Dept. of Dermatol., Academisch Medisch Centrum, Meibergdreef 9, 1105 AZ Amsterdam, The Netherlands)


15-21 September 1991. 14th Conference on Isopreneoids, Tabor, Czechoslovakia. (Dr. L. Kolokut, Institute of Cytology and Chemistry, Biologicka Akademie, Ceskoslovak Academy of Sciences, Flemingovo 2, 166 10 Prague 6, Czechoslovakia)


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


24-27 September 1991. First Congress of UK Biotechnology of the British Coordinating Committee for Biotechnology, Bangor, UK. (Biotec UK Secretariat, c/o SCI, 15 Belgrave Sq., London WEX1 8PS, UK)

29 September-5 October 1991. American Physiological Society Fall Meeting, San Antonio, Texasa, USA. (Dr. Martin Frank, APS, 9650 Rockville Pk., Bethesda, MD 20814, USA)


6-10 October 1991. Eighth International Congress of Human Genetics, Washington, D.C., USA. (Dr. John J. Mulvihill, Secretary-General, ASHG, 1965 Rock- ville Pk., Bethesda, MD 20814, USA)

7-10 October 1991. 6th Asian Congress of Nutrition, Kuala Lumpur, Malaysia. (Sec. Gen., 6th Asian Congress of Nutrition, c/o Dept. of Food Science and Nutrition, Faculty of Life Sciences, Universiti Kebang- saan Malaysia, 43600 UM, Bangi, Selangor, Malaysia)

20-23 October 1991. 11th International Symposium on HPLC of Proteins, Peptides and Polynucleotides, Washington, D.C., USA. (Janet E. Cunningham, Barr Enterprises, P.O. Box 279, Wallingdale, WV 25175, USA)

21-23 October 1991. Combined Meeting of the Or- thopaedic Research Societies of USA, Japan, and Canada, Banff, Alberta, Canada. (U. of Calgary, Conf. Of., 2500 University Dr., NW, Calgary, Al- berta, Canada T2N 4N1)
27 October-1 November 1991. Third International Congress of Neumunnoekology, Jerusalem, Israel. (Dr. Haim Ovadia, Dept. of Neurology, Hadassah U. Hospital, P.O. Box 5006, Tel Aviv 61500, Israel)


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

22-25 April 1992. 2nd International Symposium on Endotoxin-Natural and Recombinant Factors, Basel, Switzerland. (Dr. T. L. Luscher, Dept. of Int. Med. Div. of Cardiology, University Hospital, Petersgraben 4, CH-4031 Basel, Switzerland)

29 June-5 July 1992. Sixth International Congress of Toxicology, Rome, Italy (IUTOX, Dr. J. E. Gibson, Chemical Industry Inst. of Toxicology, P.O. Box 12317, 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, Sec. Gen., Fifth International Congress for Cell Biology, Centro de Investigaciones Biologicas, Velazquez 144, 28006 Madrid, Spain)


10-14 August 1992. 21st FEBS Meeting, Dublin, Ireland. (Dr. T. Mansle, 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-1068 Budapest, Dzsa Gy. ut 84/A, Hungary)

28 March-2 April 1993. 7th Annual Meeting of the Federation of American Societies for Experimental Biology, New Orleans, Louisiana, USA. (FASEB Oflc. of Scientific Mgrs, 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, Gen. Sec., CSIRO Division of Human Nutrition, Kintore Ave., Adelaide, South Australia 5000)


*26-27 March 1991. Capillary Electrophoresis, Micro LC, and Mass Spectrometry Analysis of Proteins and Peptides, University of Nebraska-Lincoln, Lincoln, Nebraska, USA. (Dr. Joseph Sehrani, Iseo, Inc., PO Box 5347, Lincoln, NE 68505, USA)

10-12 April 1991. Scanning 91, Atlantic City, New Jersey, USA. (Mary K. Sullivan, FAMS, Inc., Box 832, Mahway, N.J. 07430, USA)

*2-4 June 1991. Methods of Immunologic Research and Diagnosis, Buffalo, New York, USA. (Dr. J. Mohn, Ernst Wittecky Center for Immunology, 384 Sherman Hall, Buffalo, NY 14214, USA)