Gangliosides for nerve regenerative processes. Gangliosides are used as antigenic blood group determinants and as receptors for toxins, hormones, and viruses like influenza. Indications are that gangliosides can be used as membrane modulators of malignant processes in cell membranes and as pharmacological agents in the treatment of neuronal lesions. It has also been shown that gangliosides have an important role in the synaptic transmission of nerve impulses and as sensitive cell surface regulators in various CNS diseases like Alzheimer's disease, and also as a growth factor. Accurate Chemical & Scientific Corp., 300 Shames Dr., Westbury, NY 11590, USA. Telephone 516-333-2221 or fax 516-997-4948. Circle 46 on Reader Service Card.

Flow cytometer. Efficiency, increased throughput, and operator safety make the new Coulter EPICS Profile II clinical flow cytometer more beneficial to laboratories than any other.

The Profile II is compact, sleek, and has controls that are easy to use, a feature that saves space. The system presents options on a touch-screen to the technician. With the touch of a finger-tip, the operator can quickly choose appropriate functions for input, analysis, and reporting.

The multitasking computers engineered into the Profile II enable the instrument to simultaneously aspirate a sample and print analysis results from a previous specimen. These capabilities increase productivity in the laboratory, because the instrument accomplishes more in less time while freeing the technician for additional tasks. Additionally, the Profile II is safer to operate than other clinical flow cytometers, because all aspirating and cleaning functions are performed automatically by the instrument, not by the operator.

The Profile II generates comprehensive, informative single-patient panel reports and histograms from such applications as surface marker analysis, DNA content analysis, reticulocyte, and platelet analysis.

When used with the COULTER Q-Prep Immunology workstation for automated sample preparation, the Profile II and ImmunoPrep reagents, controls, and standards allow labs to perform complete cytometric analysis in less than 30 minutes. Coulter, P.O. Box 4486, Hialeah, FL 33014-0486, USA. Telephone 800-633-7427 or 305-885-0131. Circle 64 on Reader Service Card.

Packed-column SFC system. This complete supercritical fluid chromatograph combines programmable SFC fluid delivery, 1 mm packed-column technology, and a variable UV-vis detector with 6000 psi flow cells down to 0.12 μl illuminated volume. The fluid delivery subsystem includes a proven 10,000 psi syringe pump with computer-based control for pressure and density gradients. Isco 1 mm columns with 3 μm packing provide SFC efficiencies up to 1,000,000 plates/meter and are available in lengths of 10, 15, and 25 cm with a range of bonded phases. The absorbance detector operates at 190–750 nm and features 2 × 10^{-6} AU detectability with ultrafast response (0.05 s rise time). Pump and controller are also available separately for SFC analyses using the FID in almost any gas chromatograph. Isco, 4700 Superior, Lincoln, NE 68504, USA. Telephone 800-228-4250. Circle 56 on Reader Service Card.

Clarke-style needle O2 microelectrode. Model 747 is a microelectrode designed specifically for measuring PO2/PH2 in tissues. It is of the polarographic type and is insulated in glass and encased in durable 20g stainless steel needle with its own internal reference electrode. The cathode is gold plated and has a tip diameter of approximately 3–12 microns. The response time is 90% within 5 seconds. The microelectrode is accurate in stirred and unstirred media, and the consumption of the PO2/PH2 is quite low. Diamond General Development Corp., 3965 Research Park Dr., Ann Arbor, MI 48108-2296, USA. Telephone 313-747-9700. Circle 48 on Reader Service Card.

Molecularly cloned viruses and viroids. Twenty-four new molecularly cloned viruses and viroids have been added to the plant virus collection at the American Type Culture Collection (ATCC). Eight clones are available (with the ATCC number) are: cauliflower mosaic (two clones), #45031 and 45032; tobacco etch (two clones), #45035 and 45036; beet curly top, #45037; brome mosaic, 45038; cassava latent, #45039; and tobacco mosaic, 45045. (See literature, this section, for ATCC catalog information.) American Type Culture Collection, 12301 Parklawn Dr., Rockville, MD 20852-1776, USA. Telephone 301-881-2600. Circle 68 on Reader Service Card.
**Buchner-style funnel with replaceable frit.** Deltaware introduces a filter assembly with replaceable frits. One funnel assembly comes with a selection of interchangeable frits that include fine, medium, coarse, and extra coarse porosities. The unique glass-filled polypropylene-threaded clamp makes assembly and disassembly quick and easy. Frits are reusable but may be discarded if the possibility of cross contamination exists. Glass parts are constructed of sturdy, heavy wall borosilicate. Kimble, P.O. Box 729, Vineland, NJ 08360, USA. Telephone 609-692-8500. Circle 50 on Reader Service Card.

**Taq polymerase reagent kit.** Applied Biosystems has introduced a Taq polymerase reagent kit designed for use with the Model 370A DNA Sequencer. The kit simplifies the preparation of extension products for automated DNA sequencing using fluorescent-based technology.

Because of its unique thermophilic properties, Taq polymerase offers many benefits, including Klenow Modified T7, and reverse transcriptase. With Taq, the researcher can obtain longer runs; more accurate base interpretation, even with GC-rich or palidromic samples; and more uniform band intensities. Five hundred bases per sequencing reaction are often obtained at greater than 99% accuracy, using less than 1 μg of starting template. Applied Biosystems, 850 Lincoln Centre Dr., Foster City, CA 94404, USA. Telephone 415-570-6667; fax 415-572-2743. Circle 58 on Reader Service Card.

**Electrophoresis-grade urea.** National Diagnostics offers a pure, high quality urea that comes in glistening, snowy crystals, making measuring faster, easier, and more accurate.

These crystals are the result of a special purification process that removes all ammoniacal contamination and prevents the decomposition that produces ammonia and its side product Biuret. The presence of Biuret is an accurate indication of ammonia contamination.

National Diagnostics' urea is always Biuret-tested, always Biuret negative, and therefore always ammonia-free.

The presence of ammonia can cause inappropriate pH changes that shift Rf values, altering the reproducibility of separation. Ammoniacal contamination can also cause hydrolysis of base-specific protein moieties, as well as increases in ionic strength and conductivity, leading to decreased separation.

The presence of ammonia in many brands can be detected not only by the odor, but by their markedly alkaline pH (pH 8-10) in aqueous solutions. In contrast, solutions of up to 50% National Diagnostics' urea in water are neutral. Stringent manufacturing specifications also eliminate trace metals that may inhibit enzyme activity.

National Diagnostics' urea is packaged in unbreakable plastic, wide-mouth, screw-top cans that impede moisture buildup and provide optimal ammonia-free shelf life while preventing the lumping that makes accurate measuring more difficult. National Diagnostics, 1013-1017 Kennedy Blvd., Manville, NJ, 08835-2031, USA. Telephone 800-526-3867 or 201-722-8600; fax 201-722-8641. Circle 66 on Reader Service Card.
Multichannel pipettes. Brinkmann Instruments, Inc. introduces lightweight 8- and 12- multichannel pipettes designed for right- or left-handed use and optimum pipetting comfort. The manifold adjusts to the user's most natural pipetting position. Volumes are easily adjusted even while wearing safety gloves, and all models have a built-in tip ejector.

An individual piston for each channel provides accurate and reproducible results from one channel to the next. The transferette manifold can be autoclaved at 121°C for sterile procedures or decontamination. It twists off and on by hand. Brinkmann, Cantiague Rd., Westbury, NY 11590, USA. Telephone 800-645-3050 or 516-334-7500. Circle 52 on Reader Service Card.

Circular dichroism spectrometer. Model 62DS is the latest circular dichroism spectrometer in the AVIV DS line of high performance instruments. This model is microprocessor-controlled and capable of automatic data collections vs. wavelength, time, or temperature. The model can be programmed for complete unattended operation and has a broad range of data manipulation routines. The CD system software includes a Protein Secondary Structure Analysis program, which was the Yang method. The model uses a Cary F8 fused silica double prism monochromator, known for its excellent UV performance. The CD system has been improved with modern optical elements in critical locations, extending the usable wavelength range to 175 nm. The normal upper wavelength limit can be extended from 600 nm to 800 nm by changing the optional interchangeable photomultipliers. The large sample compartment accommodates a variety of optional accessories including two temperature control systems, solid sample holder for thin film studies, fluorescence detection CD system, and a stopped-flow CD system using Bio-Logic SFM3 or SFM2 mixing system. Aviv Associates, 810 Towbin Ave., Lakewood, NJ 08701, USA. Telephone 201-367-1663; fax 201-370-0032. Circle 52 on Reader Service Card.

Stand-alone digital player/recorder and data logger interfaces with Macs and PCs. Data that have been digitized and stored in the RAM memory of DataSpan20™ may be easily transferred to a personal computer, facilitated by new software from WPI: DataView™ and MacSpan™ allow DataSpan20 to be used with either IBM-compatible or Macintosh® computers.

The software not only transfers DataSpan20 files to a computer for view and analysis, but also allows DataSpan20 to be operated entirely from the computer. On-screen controls allow scrolling, selecting portions of the waveform for copying or zooming, adjusting time and voltage scales, and printing. Files may be saved in ASCII (text) format as well as the usual compressed binary format, and can then be opened with other programs (such as Lotus 1-2-3™) for analysis.

The small, easily portable DataSpan20 is a stand-alone data acquisitor that may also be used without a computer. Analog input is digitized at rates from one to 50,000 samples per second and stored in RAM for playback at the same or different speeds. Fast transient events may be captured and played out at slow speed to a chart recorder, for example, effectively increasing the chart recorder's frequency response from 4 Hz to 5 kHz. DataSpan20 can also lend digital storage capability to inexpensive oscilloscopes by capturing transient events and playing them back continuously, effectively freezing the image on the scope. World Precision Instruments, 375 Quinrippac Ave., New Haven, CT 06513, USA. Telephone 203-469-8281. Circle 54 on Reader Service Card.

Literature

Plant Viruses and Antisera lists 135 viruses and viroids and 65 antisera. A supplement to Animal and Plant Viruses references catalog from ATTC, 12301 Parklawn Dr., Rockville, MD 20852, USA.

Comparison of Chemical Vapor Handling by Three Types of Class II Biological Safety Cabinets, a reprint from Baker, P.O. Drawer E—Sanford Airport, Sanford, ME 04073, USA.

Laboratory products, 1989/90 catalog from Wheaton, 1301 N. 10th St., Millville, NJ 08332, USA.

121 radiiodinated ligands and antibodies, a catalog from Cambridge Medical Technology, 575 Middlesex Tpke., Billerica, MA 01865, USA.

Greater Retention of Contaminants in Fetal Bovine Serum: 40 nm Filtration, a report from HyClone, 1725 S. State Hwy., 89-91, Logan, UT 84321, USA.

Capillary electrophoresis detector, a brochure from Isco, P.O. Box 5347, Lincoln NE 68505, USA.

Biogradable polymers, a listing (Data Sheets 288 and 363) from Polyscience, Inc., Dept. DK, 400 Valley Rd., Warrington, PA 18976-2590, USA.

Laboratory incubators, a catalog from LAB-LINE Instruments, 15th and Bloomingdale Aves., Melrose Park, IL 60160-1491, USA.

Stable isotopes as a nonradioactive alternative, a brochure from Icon, 19 Ox Bow Ln., Summit, NJ 07901, USA.

Serum LD isoenzymes and laboratory diagnosis of hemoglobinopathies, two chart lists from Helena, 1530 Lindenbergh Dr., Beaumont, TX 77704-0752, USA.

AIDS and AIDS-related amplification probes and primers included in a 1989 new product catalog from Synthetic Genetics, 10455 Roselle St., San Diego, CA 92121, USA.

Cryogenic storage vessels, a catalog from Nautilus Scientific, P.O. Box 1629, Melrose Park, IL 60161.

HPLC accessories, a brochure from Scientific Systems, 1120 West College Ave., State College, PA 16801, USA.

Pipets, scintillation vials, culture tubes for one-time use, featured in a bulletin from Fisher Scientific, 711 Forbes Ave., Pittsburgh, PA 15219, USA.
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 4½ inches; $900.00 for ½ page, 3½ inches x 9½ inches (vertical) or 7½ inches x 4½ inches (horizontal); $1200.00 for full page, 7½ inches x 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) 530-7020

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POSITIONS AVAILABLE

POSTDOCTORAL POSITION. Research in vascular cell biology, principally in vitro, with major interest in vascular cell interactions both among the cellular elements themselves and extracellular matrix molecules. Expertise in all aspects of cell culture and basic techniques of cell biology required. Position available immediately, funded for minimum of two years. Salary range $22,000 to $26,000. Reply with CV and references to Richard P. Cambria, M.D., Massachusetts General Hospital, 15 Parkman Street, Boston, MA 02114.

RESEARCH POSITION. The Monell Chemical Senses Center seeks individuals with a background in biochemistry/physiology for multidisciplinary studies of the chemical senses, nutrition and appetite. Research areas include basic mechanisms and clinical aspects of diet selection, food and fluid intake, learned flavor preferences and cephalic phase digestive reflexes. Appointments may be made at the postdoctoral or assistant member level, depending on experience and qualifications. Send CV, names of three references and statement of research interests and objectives to Director, Monell Chemical Senses Center, 3500 Market Street, Philadelphia, PA 19104.

ASSOCIATE DIRECTOR/ASSOCIATE DEAN. The University of Vermont is seeking an Associate Director of the Extension Service and Associate Dean of the Division of Agriculture, Natural Resources, and Extension. This person is responsible to the Director of the Extension Service for the day-to-day management of the Extension Service, including all programming, budgeting, human resources and related activities and will act as the liaison with other units within and outside the University to enhance integration of research and outreach education. Candidates must have successful administrative and human resource management experience and a strong commitment to outreach education and research. An earned Ph.D. in a research discipline is required. Professional experience in the Extension Service is desirable. Applicants should submit a letter of application, a current CV, a list of publications, evidence of successful leadership and effective communications, a statement of professional goals and philosophy and a list of five names of referees. Nominations and applications should be sent to Dr. Lorraine P. Berkett, Chair, Extension Associate Director Search Committee, Department of Plant & Soil Science, University of Vermont, Burlington, VT 05405-0082. Deadline for receiving application and supporting material is May 2, 1989. The position will be available on or before September 1, 1989.
DEPUTY DIRECTOR, OFFICE OF HEALTH & ENVIRONMENTAL ASSESSMENT (OHEA)
DIRECTOR, HUMAN HEALTH ASSESSMENT GROUP (HHAG)

The U.S. Environmental Protection Agency (EPA) is seeking highly qualified candidates for two Senior Executive Service (SES) positions located at EPA Headquarters in Washington, DC.

The OHEA oversees an Exposure Assessment Group and HHAG at Headquarters, Environmental Criteria Assessment Offices at Cincinnati, Ohio, and Research Triangle Park, North Carolina. OHEA is responsible for the technical direction and management of programs for assessing effects of environmental pollutants on human health and ecological systems, i.e., performing hazard assessments, developing risk assessment methods and guidelines, providing other forms of scientific advice to Agency regulatory offices and planning/implementing research aimed at reducing uncertainty in risk assessment.

The Director, HHAG oversees four branches with emphases on toxicology, epidemiology, biostatistics, mechanisms of toxic action. HHAG provides the Agency with health hazard risk information for use in regulatory decision making with recommendations being defensible at national/international levels.

Applicants must have a bachelor's or higher degree in life or health sciences or a related field relating to the work of the positions and professional experience demonstrating leadership and technical competence in one of those fields. Notable experience in human health risk assessment or in public health protection is desirable. Must meet the technical/executive qualifications described in Vacancy Announcement. For a copy of the Vacancy Announcement call or write: Edna Morse, Environmental Protection Agency, Executive Resources and Special Programs Division, PM-224, 401 M Street, SW, Washington, DC 20460 (202) 382-3328.

Applications must be postmarked by June 1, 1989. A separate SF-171, Application for Federal Employment, MUST be submitted for EACH position.

EPA is an equal employment opportunity employer.

NORTHEASTERN UNIVERSITY
DIRECTOR, OFFICE OF RESEARCH SAFETY

Northwestern University is seeking a Director for its Office of Research Safety, a centrally administered unit having responsibilities on both the Chicago and Evanston campuses. The duties encompass radiation safety, chemical, biological and rDNA safety, and hazardous waste management.

The Director is responsible for program planning and development as well as maintaining regulatory compliance with applicable federal and state regulations and University policies. Candidates should have a Ph.D., or equivalent degree, in health physics, environmental health, chemistry or related field and at least 5 years of experience including administration, in an environmental health program or office. The Director reports to the Vice President for Research and Dean of the Graduate School through the Director of Research Services Administration.

The position is currently available and applications will be reviewed until the position is filled. Applicants should submit a resume, including the names of at least three references, to: Search Committee, Northwestern University, Research Services Administration, 633 Clark Street, Evanston, IL 60208

Equal opportunity employer M/F.

ACADEMIC PATHOLOGISTS

The Department of Pathology, University of Illinois College of Medicine at Peoria, invites applications from pathologists with training and experience in one or more of the following areas: molecular diagnosis, molecular immunology, molecular genetics, immunopathology, tumor immunology, flow cytometry, electron microscopy or forensic pathology. In addition to teaching medical students the successful candidates will establish an extramurally funded research program and/or a subspecialty reference service. Two tenure-track positions are available, one each at the assistant and associate professor levels. Applicants should submit CV, list of publications, names and telephone numbers of three references and a brief statement of academic interests and plans. Applications will be accepted until the positions are filled. Send applications to

Gerald L. Bartlett, M.D., Ph.D.
Chair, Department of Pathology
University of Illinois College of Medicine at Peoria
P.O. Box 1649
Peoria, Illinois 61656

An affirmative action/equal opportunity employer.
PROFESSOR OF HUMAN NUTRITION AND NUTRITION CLUSTER LEADER, University of Missouri-Columbia. Applications are invited for this position. As professor in the Department of Human Nutrition and Foods, the successful candidate will have primary responsibility for developing a distinguished research program and will have limited instructional responsibilities. The Nutrition Cluster Leader is expected to provide dynamic leadership for scientists engaged in basic nutritional research across several university departments. Candidates for the position must hold a doctoral and/or medical degree. To apply, send a letter of application and CV with names and addresses of three references to Nutrition Search Committee, Gretchen Myers Hill, Chair, 217 Gwynn Hall, University of Missouri, Columbia, MO 65211. The University of Missouri is an equal opportunity/affirmative action employer.

PROJECT SCIENTIST POSITION IN VASCULAR CELL BIOLOGY. The successful applicant will have two or more years of postdoctoral training in a cell/molecular biology or biochemistry laboratory. Expertise in cell culture, biochemical techniques and the cloning and sequencing of genes is required. Project involves the regulation of gene expression in endothelial cells and macrophages. Salary is generous and commensurate with experience. Submit resume to P. E. DiCorleto, Ph.D., Department of Vascular Cell Biology, Research Institute FP4, The Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44195.

POSTDOCTORAL FELLOW AND/OR RESEARCH ASSOCIATE. Retrovirus Research Laboratory, Colorado State University. Person(s) with experience in research techniques in virology, protein biochemistry, immunochemistry and/or cellular biology to participate in investigations of the mechanisms of retrovirus infection and disease in model systems sought. Background in virologic and immunologic assays, nucleic acid, protein detection and purification methods are most relevant. Capacity for independent work and ability to interact productively with colleagues are important. Minimum requirements: M.S. or Ph.D. in biologic science, relevant experience. Salary commensurate with credentials. Deadline: June 1, 1989. Please send resume to Dr. Edward A. Hoover, Professor, Department of Pathology, Colorado State University, Fort Collins, CO 80523. Colorado State University is an equal opportunity/affirmative action employer and complies with all federal and Colorado state laws, regulations and executive orders regarding affirmative action requirements.

CARDIOVASCULAR FACULTY POSITION. Applications are invited for a tenure-track faculty position in the area of Cardiovascular Physiology and Control of Circulation at the level of associate or full professor. Candidates must have a Ph.D. or M.D. degree and sufficient postdoctoral teaching and research experience commensurate with the expected level of appointment. This position will complement an interactive group of faculty with strong commitment to the study of cellular and integrative aspects of neural and endocrine control of physiological systems. The successful candidate will be expected to develop and maintain a strong independent research program and to participate in teaching the medical and graduate students. Interested applicants should submit by June 1, 1989 CV, statement of research goals and accomplishments, summary of teaching experience and the names of four references to Esmail Koushanpour, Ph.D., Chairman, Search Committee, Department of Physiology, Northwestern University Medical School, 303 E Chicago Avenue, Chicago, IL 60611 (312) 928-3207/9991. Northwestern University is an affirmative action/equal opportunity employer. Hiring is contingent upon eligibility to work in the United States.

EDITOR-IN-CHIEF. The American Society for Parenteral and Enteral Nutrition announces an open search for the next Editor-in-Chief of JPEN. Interested applicants should send a letter of interest and CV to the Search Committee by September 1, 1989. Send to Douglas Wilmore, M.D., Chairman, JPEN Editor Search Committee, c/o A.S.P.E.N., 8605 Cameron Street, Suite 500, Silver Spring, MD 20910.

POSTDOCTORAL POSITION available immediately to study structure and function of ribosomal proteins. Experience in molecular genetics, protein chemistry and computer molecular graphics preferred. Qualified applicants write with CV and references to Professor Robert R. Traut, Department of Biological Chemistry, School of Medicine, University of California, Davis, CA 95616. An equal opportunity/affirmative action employer.
RESEARCH FACULTY. The University of Michigan Medical Center, Division of Pediatric Gastroenterology is recruiting a scientist with an interest in smooth muscle physiology and intracellular messengers. Applicant must be willing to assist ongoing investigations and develop a related independent research program. Must have Ph.D. and previous experience in this or related field. Salary support for two years will be provided. Submit CV and references to A. Craig Hillemejer, M.D., Director, Pediatric GI, Room 1510 E MSRB I, University of Michigan Medical Center, Ann Arbor, MI 48109-0658. The University of Michigan is an equal opportunity/affirmative action employer.

RESEARCH ASSOCIATE. Ph.D. or M.D. Cellular and molecular mechanisms of lung injury: macrophages, cell culture, growth factors, fibrogenesis. Experience with molecular biology and oncogenes desirable. Competitive salary commensurate with experience. Available April 1, 1989, or thereafter. Contact Gerald L. Bartlett, M.D., Ph.D., Chair, Department of Pathology, University of Illinois College of Medicine at Peoria, P.O. Box 1649, Peoria, IL 61656. An equal opportunity employer.

POSTDOCTORAL APPOINTMENT is available to the successful candidate to join basic research group that applies studies on the mechanisms of signal transduction in excitable tissues to answer clinically relevant questions in human tissues and cells. An ongoing collaboration with physiologists, pharmacologists, cell biologists and clinicians provides the postdoctoral fellow with an opportunity for interdisciplinary training in the basic medical sciences. Novel kinetic methods, cell imaging techniques, as well as biochemical and pharmacological procedures are all combined in any given project to ensure a well-rounded approach to scientific research. The postdoctoral fellow will have the chance to choose from a variety of exciting available projects, or to develop new lines of research. Send CV to Dr. George Christ, Department of Urology, Montefiore Medical Center, 111 E 210th Street, Bronx, NY 10467.

POSITIONS DESIRED

Ph.D., 1988; Pharmacology, toxicology; Experience in biochemical & cardiovascular pharmacology, clinical pharmacology of anesthetics, pharmacokinetics, 3 yr. government experience in risk assessment, chemical toxicity review, occupational health, report writing, conference coordination; Staff position industry/government; Salary negot. 3-9088

Ph.D., 1985; Pharmacology, toxicology, physiology, biochemistry, molecular biology; Gene expression, drug metabolism/excretion, enzymology, pulmonary and hepatic pharmacology/toxicology studied in vivo/in vitro and in tissue culture; Avail. fall 1989; Research position desired. 3-9166

Ph.D., 1982; Cardiovascular and renal pharmacology; Experience with in vivo cardiovascular and renal experiments in large and small animals, autonomic compounds, ANF, endogenous role of dopamine; Avail. immediately; Entry level scientist/assistant professor; Salary negot. 3-9172

Ph.D., 1989 (expected); Pharmacology, cell physiology; Characterization of Ca2+/Ca2+ exchange in blood platelets, 2nd messenger systems, fluorescent measurement of intracellular Ca2+ and pH, isotopic ion fluxes, platelet function studies; Avail. May 1989; Postdoc position in academia/industry; Salary negot. 3-9173

Ph.D., 1989 (expected); Pharmacology, immunopharmacology; Animal models of inflammation, autoimmunity and immune function, in vitro studies on lymphocyte/macrophage function, lymphokine generation and isolation, cell culture, protein purification, HPLC, electrophoresis, IEF; Avail. fall 1989; Staff or postdoc. position, industry preferred. 3-9176

Ph.D., 1989; Pharmacology, toxicology, pharmacokinetics, drug metabolism; Isolated rat liver perfusion, small animal surgery, pyrimidine nucleoside metabolism, chromatographic and radiotechnical techniques, spectrophotometry; Avail. summer 1989; Pharmacokinetic/drug metabolism postdoc. position in academia; Salary negot. 3-9176

Ph.D., 1989 (expected); Pharmacology; Characterization of B-adrenergic receptor pathways in human and in cell culture systems, coupling of receptors to adenylate cyclase and contractility; Avail. September 1989; Molecular biology postdoc. position in academia/industry. 3-9177

Ph.D., 1985; Biochemical pharmacology; Drug metabolism, relationship to intracellular cofactors and toxicity, hepatocytes and processed liver techniques, metabolite identification, HPLC, GC, radioisotopes; Avail. February 1989; Staff position in industry; Salary negot. 3-9178

Ph.D., 1989 (expected); Tumor cell biology; Integrin receptor expression & regulation by cytoskeleton, tissue culture, adhesion assays to biological substrata, cytoskeletal & membrane protein isolation & characterization, immunocytochemical/immunoblotting techniques, agregomometry studies; Avail. December 1989; Postdoc. position in academia/industry. 7-9179

Ph.D., 1989 (expected); Physiology, anatomy; Surgical isolation of various cardiac preparations and application of standard intracellular microelectrode techniques to cardiac tissues; Avail. summer 1989; Postdoc. position in academia/industry; Salary negot. 1-9180

Ph.D., 1987; Physiology; Experience in vivo microperfusion of proximal tubules, microanalysis of minute fluid volumes, isolation of proximal cells and cytosolic calcium measurement; Avail. May 1989; Postdoc. position in academia/industry; Salary negot. 1-9181

Ph.D., 1989 (expected); Physiology, macrophage function; Evaluation macrophages in vivo/vitro, complement, Fc receptor function, H2O2 production, host defense, preparation liposomes and modified erythrocytes (inhibited catalase & SOD, ghosts); Avail. January 1990; Postdoc. position in molecular biology and physiology; Salary negot. 1-9182

Ph.D., 1984; Physiology, cell and gastrointestinal physiology; Epithelial transport, conventional and ion-selective microelectrodes, cell culture, intracellular indicators, electrophysiology of complex epithelia and epithelial cell types and development, regulation of membrane transport processes; Faculty/staff position; Salary negot. 1-9184

Ph.D., 1987; Neuromedinocrinology, renal endocrinology; Experience in RIA, in vitro kidney slice studies, separation of different renin forms by isoelectric focusing, metabolic balance studies; Date negot.; Postdoc. position in academia; Salary negot. 1-9185

Ph.D., 1989 (expected); Physiology, endocrinology, pharmacology, biochemistry; Extraction, identification, quantification and metabolism of eicosanoids produced during circulatory shock, RP-HPLC, RIA, hemodynamics; Avail. September 1989; Postdoc. or staff position in academia, teaching or industry; Salary negot. 1-9186

Ph.D., 1989 (expected); Physiology, pharmacology, membrane transport in vascular smooth muscle; Physiological/pharmacologic properties of anti-hypertensive agents using isotope flux and tension techniques; Avail. September 1989; Postdoc. position in academia/industry; Salary negot. 1-9187

Ph.D., 1970; Lipid biochemistry, synthetic chemistry; Phospholipid & arachidonic acid metabolism, radiometric & immunochromatographic methods, RIA, ELISA, TLC, GC, HPLC, blood cell analysis, organelle interaction, PLA2, PLC assays, organic synthesis; Research position academia/industry. 2-9189

Ph.D., 1982; Biochemistry, endocrinology; Receptors, oxygen radical role in cardiac membrane injury, isolation of sarcolemma, sarcomplasmic reticulum, studies of calcium transport, ATPases, calcium channel, ryanodine binding, Na+/Ca2+ exchange; Avail. immediately; Staff position. 2-9190

Ph.D., 1989 (expected); Molecular biology, biophysical chemistry, physical organic chemistry; Site directed mutagenesis, cloning, gel electrophoresis, Western/Southern blotting, colony hybridization, protein folding, kinetics and thermodynamics of near diffusion limited reactions; Avail. August 1989; Postdoc. in academia/industry; Salary negot. 2-9191

Ph.D., 1986; Biochemistry, molecular biology; Isolation, characterization & mechanisms of action of enzymes & enzyme complexes, protein phosphorylation & cascade systems, general biochemical techniques, steady-state & fast reaction kinetics, CD & atomic absorption spectroscopy, FPLC; Avail. immediately; Industry preferred; Salary negot. 2-9192

Ph.D., 1983; Animal nutrition, biochemistry, protein chemistry; Characterization of crosslinks in collagen, experience in large-scale purification, HPLC of peptides & amino acids, UV, fluorescence, NMR, mass spectrometry; Avail. July 1989; Research position in academia/industry; Salary negot. 2-9193

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Ph.D., 1989; Biochemistry, proteoglycan/connective tissue biochemistry; Experience in endothelial cell culture, radiolabeling, carbohydrate analysis, physical biochemical techniques, polymer chemistry; Avail. immediately; Staff position in industry; Salary negot.; Minneapolis/St. Paul, MN area. 2-9194

Ph.D., 1984; Physiological psychology; Intermediary metabolism in humans, especially adipocyte metabolism (lipolysis, lipid synthesis, metabolite recycling, hormone responsiveness, enzyme activities) in normal and pathologic states; Avail. July 1989; Research and/or teaching; Salary negot. 5-9195

Ph.D., 1987; Nutrition, biochemistry, biology, gerontology; Experience in chromatography, ELISA, electrophoresis, background in animal and human research, clinical and administration; Avail. June 1989; Research or administration position; Salary negot. 5-9196

Ph.D., 1989 (expected); Nutritional biochemistry, dietary fiber chemistry, ruminant nutrition; Characterization of factors which limit plant cell wall fermentation, HPLC analysis of cell wall carbohydrates and phenolic monomers; Avail. fall 1989; Research position in academia/industry; Salary negot. 5-9197

Ph.D., 1989 (expected); Nutrition, toxicology, pharmaceutical sciences; Quantitative bioanalysis using enzymatic, chromatographic, physicochemical and biochemical methods, carcinogenesis, diet formulation, animal care and surgery, statistics, laboratory management; Avail. September 1989; Research position; Salary negot. 5-9199

Ph.D., 1989 (expected); Nutrition, pharmacology, toxicology; R.D.; Aluminum induced cholestatic liver disease, nutrient effects on mixed function oxidase & conjugation reactions, isolated hepatocytes, microsomes, AAS, HPLC, radiotracers, teaching experience; Avail. fall 1989; Research/teaching academia/industry or postdoc.; Southern CA. 5-9200

Ph.D., 1989 (expected); Immunology, cytokine biology; Cytokine modulation of tumor and infectious agent response, LAK generation, functional and physical characterization of lymphocytes and macrophages, in vitro immunological assays, EM, MAB, FACS, and animal techniques; Avail. summer 1989. 6-9201

Ph.D., 1989 (expected); Pharmacology, immunotoxicology; Mechanism of N-Nitrosodimethylamine immunotoxicity, tissue culture, in vivo studies, cell separations, in vitro bioassays, alkaline elution, HPLC, electrophoresis, ELISA; Avail. fall 1989; Immunology postdoc. position in academia/industry; Salary negot. 6-9204

Ph.D., 1984; Immunology, molecular biology; Virally induced in vitro transformations, lymphocyte cloning, Ag specific TCL, tumor lines, extensive FACS, ELISA, monoclonal production, DNA, RNA, plasmid preparations, Northern & Southern analysis; Staff position in research/teaching. 6-9205

Ph.D., 1986; Immunotoxicology, neurotoxicology, environmental health; Immunological assays, host resistance study, neurochemical techniques, receptor binding, tissue cell culture, HPLC, electrophoresis; Avail. June 1989; Research/teaching in toxicology, immunology, pharmacology in industry/academia; VA, OH, NJ area preferred. 6-9206

Ph.D., 1986; Immunology, molecular biology; Tissue culture, DNA and RNA isolation and analysis, genomic library screening, gene expression studies, lymphocyte isolation; Avail. January 1991; Research/teaching position, full-/part-time; Salary negot.; Pacific Northwest, Intermountain. 6-9207

Ph.D., 1985; Nutrition, food, biochemistry; Experience in lipoprotein and apoprotein metabolism with fat or fiber intake, monounsaturate and mammmary neoplasia, background in food analysis, quality control and R&D; Avail. summer 1989; Position in academia/industry; Salary negot. 5-9208

Ph.D., 1986; Biochemistry, molecular biology, immunology; Characterization of eukaryotic RNA polymerase II, molecular mechanisms of lymphokine regulation of MHC expression, recombinant DNA techniques, tissue culture, transfection; Avail. September 1989; Staff scientist in industry/academia; Salary negot. 2-9210

Ph.D., 1987; Biochemistry, molecular biology; Purification and characterization of serum and nuclear proteins, isolation and characterization of cDNA clones, LC chromatography, computer analysis of DNA and protein sequences; Avail. October 1989; Postdoc. in academia/industry. 2-9211

Ph.D., 1976; Pharmacology, B.S.; Pharmacy; Cardiac electrophysiology and pharmacology, whole animal and microelectrode studies, myocardial ischemia and infarction, antiarrhythmic mechanisms, programmed electrical stimulation, computer data acquisition; Avail. immediately; Salary negot. 3-9212

MVSc., 1983; Anatomic veterinary pathology; Experience in evaluation of gross and microscopic pathology of case materials, zoo animal pathology, toxicology, clinical pathology, research methodology; Research and/or teaching preferred; Salary negot. 4-9213

Ph.D., 1990 (expected); Molecular and neuroimmunology; Experience in Southern, cloning, cellular immunology, tissue culture, animal experimentation, virus purification, mouse genetics, analysis of murine model for M.S.; Avail. January 1991; Postdoc. position in academia/industry, carcinogenesis research preferred; Salary negot. 6-9214

Ph.D., 1984; Biochemistry, molecular biology; Experience in product development, designing and coordinating execution of multi-site clinical trials, research experience in recombinant DNA techniques, protein purification, microbiology; Avail. summer 1989; Group leader position in industry; Salary negot. 2-9217

Ph.D., 1989 (expected); Biochemistry, enzymology, protein chemistry; Processing of bioactive peptides, protein purification, organelle isolation, PAGE, HPLC, peptide substrate design and synthesis; Postdoc. position in protein/peptide research; Salary negot. 2-9218

Ph.D., 1979; Physiology; Research cardiac and skeletal muscle contractile responses & electrophysiology, E-C coupling, hypoxia, caffeine & Ca+ channel blockers, malignant hyperthermia, experience teaching exercise physiology, cardiac & skeletal muscle, respiratory neurophysiology; Avail. summer 1989; Academia/industry. 1-9219

Ph.D., 1980; Environmental physiology, perinatal biology; Development of thermoregulatory ability, calorimetry, body temperature measurement, in vivo assay of drug action, autonomic mechanisms, models of chronic and acute stress; Avail. immediately; Research/teaching position in academia; Salary negot. 1-9220

Ph.D., 1989 (expected); Human nutrition, food service management, food science; 5 yr. college teaching, dietary computer food service management, nitrate/nitrite analysis; Avail. August 1989; Teaching and/or research; Salary negot. 5-9221

M.S., 1989 (expected); M.D. (China); Human nutrition, trace elements, medicine, neurology, insulin effects, GTTF with diabetes & hypercholesterolemia, animal surgery, radiolabeling, in vitro bioassays, nucleic acids, extraction & purification; AA spectroscopy, spectrophotometer, HPLC; Avail. fall 1989; Staff position in academia/industry. 5-9222

Ph.D., 1988; Microbiology, immunology, inflammation; Tissue culture, in vitro bioassays, biochemical assays, molecular biology, gene cloning, experience with cytokine systems; Avail. February 1990; Molecular biology postdoc. position in academia/government; Washington, DC/Baltimore, MD. 6-9223

Ph.D., 1982; Immunology, neuroendocrine/drug receptors in CNS, endocrine & immune systems; Identification, characterization & localization of receptors by homogenate binding autoradiography, lymphocyte identification, separation & functional assays, RIA, tissue culture; Postdoc./research associate in academia/industry. 6-9224

M.D., 1979; Internal medicine, allergy, immunology; Experience in inflammation, cytokines in human models, cell and biochemistry technologies; Avail. July 1989; Position in basic disease research/clinical/teaching in academia; Salary negot.; Northeast, New York City preferred. 6-9225

Ph.D., 1989 (expected); Immunology, infectious disease; Tissue culture and bacteriological techniques, immunoochemistry, hybridoma technology, antisera production and electrophoresis; Avail. June 1990; Postdoc. position; Salary negot. 6-9226
Ph.D., 1989 (expected); Immunology, medical/clinical microbiology; Tissue culture, in vitro/in vivo bioassay, virus isolation, purification, clinical bacteriology, mycology, parasitology; Avail. September 1989; Molecular biology postdoc. teaching, clinical, or government position; Salary negot. 6-9227

Ph.D., 1989 (expected); Toxicology, biochemistry, analytical chemistry; Experience in isolation and characterization of metabolites using HPLC, in vitro/in vivo metabolism studies; Avail. June 1989; Postdoc. position in academia/industry; Salary negot. 3-9228

Ph.D., 1980; Molecular biology, biochemistry; Virus purification (P3 laboratory), protein purification, HPLC, DNA topoisomerases, DNA cloning, hybridization, sequencing, 1 yr. teaching experience; Avail. July 1989; Position research/teaching in academia; Salary negot.; Southeastern USA. 2-9231

Ph.D., 1990 (expected); Pharmacology, cell physiology; Transport across pulmonary epithelial barriers, microelectrode studies and microanalysis, oxygen consumption, organ culture; Avail. spring 1990; Postdoc. position in academia/industry; Salary negot. 3-9232

Ph.D., 1989 (expected); Pharmacology, toxicology, physiology; RIA study of RAAS and myocardial hypertrophy, myocyte isolation, cholesterol assay of cultured platelets, human aortic and HEP-G2 cells, cardiovascular hemodynamics; Avail. May 1989; Postdoc., research or teaching position; Salary negot. 3-9233

Ph.D., 1985; Allergen isolation/characterization, mycology, pathology; Chromatography, electrophoresis and blotting, spore extraction, preparative IEF, fungal isolation and identification, plant histology; Research in academia/industry; Salary negot. 6-9234

M.S., 1988; Immunology, microbiology; Tissue culture, electron microscopy, histological tissue preparation, broad background, will consider other areas including natural science; Teaching/research/public relations; Salary negot. 8-9235

Ph.D., 1989 (expected); Physiology, cell biology; Cell culture, light, fluorescent and differential interference-contrast microscopy, endothelial monolayer permeability/albumin transport, RIA, receptor binding, teaching/laboratory assistant; Avail. January 1990; Postdoc. position; Salary negot. 1-9236

Ph.D., 1987; Biochemistry; Protein purification and characterization (HPLC, FPLC, electrophoresis), enzyme kinetics, hormones, kinases, phosphoproteins, signal transduction, membranes, antibody production, radioactive use, teaching experience; Avail. May 1989; Staff position in academia/industry; Salary negot. 2-9237

Ph.D., 1989; Microbiology, biochemistry; Experience in electron microscopy, freeze-etch, immunochemistry, lipid analyses, enzyme assays, ELISA, RIA, background in tissue and cell culture, monoclonals, HPLC; Avail. summer 1989; Biochemistry/cell biology postdoc. position in academia/industry; Salary negot. 2-9238

Ph.D., 1989 (expected); Biochemistry, enzymeology/protein chemistry; Purification and characterization, HPLC, TLC, gel electrophoresis, enzyme kinetics; Avail. June 1989; Postdoc. position; Salary negot. 2-9239

Ph.D., 1989 (expected); Biochemistry, M.S.; Organic chemistry; Procarboxy probes, genomics, membrane transport, membrane protein chemistry, molecular biology, immunology; Avail. fall 1989; Protein structure-function postdoc. position in academia/industry. 2-9241

Ph.D., 1989 (expected); Cell biology, protein biochemistry; Regulation of nuclear matrix protein during development and neuronal differentiation, nuclei and nuclear matrix isolation, cell/tissue culture, 1-2D SDS-PAGE, protein purification, affinity labeling, column chromatography, HPLC, microsequencing, hybridoma/Mab; Postdoc. position. 2-9242

Ph.D., 1989 (expected); Biological chemistry; Molecular modeling, protein purification and characterization, column chromatography, gel electrophoresis, in vitro translation, enzymatic assays; Avail. May 1989; Postdoc. or entry level position in industry; Salary negot. 3-9243

Ph.D., 1985; Cell biology, protein biochemistry; Isolation and characterization of endocytic mammalian mutants, creation, purification and characterization of recombinant proteins, extensive work with toxins; Date negot.; Research position; Salary negot. 2-9245

Ph.D., 1978; Inorganic chemistry; Experience in biochemical and analytical microbiology, molecular biology/biochemistry, gene cloning and expression, in vivo/in vitro expression systems, enzyme isolation and purification, cell fractionation, outer membrane proteins; Avail. immediately; Research position; Salary negot.; Washington, DC area. 2-9246

Ph.D., 1984; Biochemistry, enzymeology, DNA replication & repair; Cell culture, chromosomal breaks, protein purification and characterization, DNA isolation, gel electrophoresis, development enzyme assays, ELISA, DNA-protein interaction, supervisory experience; Research/teaching position in academia/industry; Salary negot. 2-9247

Ph.D., 1977; Biochemistry, enzymeology, microbiology; Protein purification and characterization, mechanism of enzyme action, microbial cultivation, physiological effects of environmental stresses in microbes, mutagenesis, transformation, DNA minicircles, ligation; Avail. June 1989; Research and/or administration; Salary negot. 2-9248

Ph.D., 1985; Molecular biology, genetics; Characterization of Agrobacterium Ti plasmid vir region control and T-DNA processing, E. coli topoisomerase effects on DNA structure and function, Step/loopous plasmid replication control; Avail. August 1989; Research/teaching; Salary negot. 2-9249

Ph.D., 1985; Toxicology, teratology (developmental toxicology); Research in mechanisms of retinoid, dioxin and growth factor induction of cleft palate, hydropsyphosis, SEM, TEM, immunohistochromy, autoradiography; Staff position. 3-9252

Ph.D., 1987; Pharmacology, developmental pathology, endocrinology, tumor cell biology; Western blot analysis, 1-2-D SDS-PAGE, steroid hormone receptor characterization, enzyme kinetics, in vivo tumor models, in vitro primary cell culture; Avail. December 1989; Salary negot. 3-9253

Ph.D., 1989 (expected); Cellular and molecular biology; Production of chimeric animals, in situ immunocytchemistry and histochemistry, gel electrophoresis, computer image analysis, DNA/RNA isolation, Southern/Northern analysis; Avail. December 1989; Postdoc/research associate position; Salary negot. 4-9254

Ph.D., 1989 (expected); Nutrition, biochemistry; Tumor biology, metastasis, antitumor drugs, tissue culture, TNF assay, fatty acid-ecosanoid metabolism, lipid and protein/enzyme isolation, column chromatography, HPLC, GC, in vivo NMR; Avail. July 1989; Molecular biology postdoc. position; Salary negot. 5-9255

Ph.D., 1986; Biochemistry; Myoblast attachment and fusion, collagen matrix adhesion receptors in endothelial and HeLa cell spreading, SEM, Mab, adhesion assay, synthesis of RGD peptides, immunocytchemistry, membrane biochemistry; Avail. summer 1989; Postdoc. or assistant professor in academia/industry; Northeast. 7-9256

Ph.D., 1985; Anatomy, cell biology, developmental biology; Microinjection of mammalian embryos, cell lineage, transgenesis, microsurgery, cell adhesion, electrophysiology and extracellular ionic currents, mammalian cell/tissue culture, electrophoresis, Westerns; Avail. fall 1989; Staff position in industry/academia; Salary negot. 7-9258

Ph.D., 1984; Neurobiology, physiology; Receptors and ionic channel proteins, experience in affinity and standard chromatography and protein separation, receptor binding and cellular localization, glycocalyx analysis, EM, reconstitution. 7-9239

Ph.D., 1982; Cell biology, protein biochemistry; Exocytosis and systems of signal transduction, protein isolation, Immunoprecipitation, cell purification, fractionation, protein phosphorylation, autoradiography, 2-D gels, histamine secretion, inositol phosphates by HPLC; Avail. July 1989; Staff position in academia/industry; Salary negot. 7-9260

Ph.D., 1986; Developmental biology, reproductive physiology; Embryo culture, microinjection, embryo transfer, transgenic mice, RT-PCR, molecular biology techniques, steroid RIA, nucleic acid preparation; Avail. summer 1989; Developmental biology/molecular biology assistant professor or 2nd postdoc. position. 7-9262

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Ph.D., 1985; Cell biology, biochemistry; Membrane receptors and signal transduction, trafficking of proteins, insulin action; Avail. immediately; Staff position in industry; Salary negot. 7-9264

Ph.D., 1989 (expected); Anatomy, cell biology; 10 yr. retinal research, immunofluorescence, LM and EM immunocytochemistry, autoradiography, in situ hybridization, instrumental analysis, gels, teaching experience in micro/neuropathology; Permanent position in neurology, immunology research in academia/industry or postdoc. in molecular biology group. 7-9265

M.S., 1989; Biochemistry; M.S., 1985; Exercise physiology; Yeast molecular biology, DNA/RNA isolation, Southern/Northern analysis, DNA manipulations, enzyme assays, laboratory/clinical research and teaching experience; Avail. July 1989; R&D position; Salary negot. 8-9267

Ph.D., 1989 (expected); Pharmacology, protein chemistry; Experience in tissue culture, electrophoresis, column chromatography, mRNA isolation, genomic DNA isolation, polyclonal antibody production; Avail. January 1990; Molecular biology postdoc. position; Salary negot. 3-9268

Ph.D., 1989 (expected); Molecular immunology, virology; Recombinant DNA techniques including cloning, Southern, Northern and Western blotting, tissue culture, hybridoma, in vitro macrophage culture, virus isolation, purification and DNA analysis; Avail. July 1989; Staff position in academia/industry; Salary negot. 6-9269

Ph.D., 1985; Immunology, molecular biology, biochemistry; Molecular & cellular studies of lymphocyte activation & differentiation, gene expression (Northern & dot blots), cloning via mammalian vector expression in COS cells, vector preparation & CAT assay, receptor studies, MAb development & characterization; Assistant professor/staff scientist. 6-9270

Ph.D., 1977; Physiology, metabolism & endocrinology; Research in insulin metabolism, glycogen/carbohydrate metabolism, microsomal membrane function, organ perfusion technique, diabetes related research, taught 3 yr. systems physiology; Avail. September 1989; Teaching and/or research. 1-9271

Ph.D., 1983; Cardiovascular physiology and microcirculation; Micravascular pressure, flow, reactivity and permeability in normo- and pathophysiology, diabetes and hypertension, microvessel isolation and biochemistry, tissue allografts into hamster cheek pouch; Avail. immediately; Research in industry/academia; Salary negot. 1-9272

Ph.D., 1984; Pharmacology; Tissue culture, hybridomas, purification and characterization of MAbs, analyses of tumor-associated antigens, RIA, immunological analyses, frozen sections, immunohistochemistry and radiolabeling of antibodies; Avail. June 1989; Staff position in academia/industry; Salary negot. 3-9274

Ph.D., 1989 (expected); Human nutrition, food service administration; Experience in teaching, human metabolism and animal feeding studies, nutrition survey projects; Registered Dietitian eligible (plan IV); Avail. May 1989; Research/teaching preferred; Salary negot. 5-9275

Ph.D., 1984; Pharmacology, molecular biology, neurochemistry; Experience in molecular cloning, DNA sequencing, restriction mapping, in vitro translation, in situ hybridization, GCMS, in vitro tissue preparations, subcellular fractionation, radioligand binding, HPLC, EM; Avail. immediately; Staff position in academia/industry; Salary negot. 3-9277

Ph.D., 1979; Biochemistry, molecular biology; Protein and RNA purification, production of plasmid and lambda gt11 DNA libraries, immuno- screening, hybrid selection, Northern, Southern, DNA sequencing; Avail. June 1989; Research position academia/industry; Salary 30K minimum. 2-9278

Ph.D., 1980; Virology, immunology, cell biology; RNA, DNA & protein purification, Southern, Northern & Western blots, immunoprecipitation, 2-D electrophoresis, tissue culture, virus isolation (Coxsackie, VSV, EBV), lymphocyte isolation & immortalization by EBV or fusion, in vitro trans- lation; Avail. September 1989; Staff position. 6-9280

Ph.D., 1983; Neurophysiology, neuropharmacology; Electrical engineering, computer background, motor control, pain, hyperalgesia, analgesia, somatosensory afferents, tissue and spinal cord, patch clamping, whole cell and single channel, co-cultures sensory and epithelial cells; Avail. summer 1989; Teaching and/or research academia/industry. 1-9281

Ph.D., 1977; Molecular pharmacology, biochemistry, medicinal chemistry; Receptor biochemistry, purification, reconstitution and phosphorylation of membrane receptors, signal transduction, protein kinases; Avail. immediately; Staff position in academia/industry. 3-9284

Ph.D., 1989 (expected); Pharmacology, cardiovascular physiology; Vasodilator mechanisms in whole animals, renin-angiotensin system, peripheral sympathetic nervous system, in vitro RIA and converting enzyme assays; Avail. fall 1989; Postdoc. position in academia/industry. Salary negot. 3-9285

Ph.D., 1989 (expected); Molecular biology; Experience in Western, Northern & Southern blots, glycoprotein labeling, iodination, immunoprecipitation, cloning DNA into gt11 & plasmid vectors, screening cDNA library, RNA & DNA isolation, plasmid isolation, tissue culture; Avail. summer 1989; Postdoc. in industry/academia; Salary negot. 2-9286

Ph.D., 1948; Organic chemistry, biochemistry; Inhibition kinetics of reverse transcriptase and other enzymes, enzyme purification, transport of drugs, structure and stereochemistry of natural products, drug synthesis; Avail. summer 1989; Staff position or consulting with academia/industry/nonprofit institute; Salary negot. 2-9287

Ph.D., 1989 (expected); Molecular biology, biochemistry, protein chemistry; Characterization of both transcriptional and translational regulation of enkephalin biosynthesis in rat heart tissue; Avail. fall 1989; Postdoc. position in industry/academia; Salary negot.; East or West Coast. 2-9288

Ph.D., 1989 (expected); Human nutrition; Trace and ultratrace element analysis, public and international health, 6 yr. research and teaching experience, 3 yr. management and counseling experience, multilingual; Avail. August 1989; Research and/or teaching academia/industry; Salary negot. 5-9289

Ph.D., 1989 (expected); Molecular immunology; Bone marrow-derived macrophage culturing, in vivo/in vitro macrophage activation assays, cytokine quantitation, immunophenotyping, SDS-PAGE, RNA isolations, hybridization techniques; Postdoc. position in academia/industry or staff position in industry; Salary negot. 6-9290

M.D., 1977; Immunology, immunogenetics, cellular immunology; Molecular pathogenic aspect of autoimmune diseases, tissue culture, in vitro bioassays, T cell lines, hybridoma production, protein purification, RIA, ELISA; Avail. fall 1989; Staff position in academia/industry. 6-9291

Ph.D., 1989 (expected); Retroviral envelope gene analysis, retroviral gene transfer; Vector design, experience in design and analysis of projects for commercial products using genetically engineered organisms, technical writing, project coordinator; Avail. fall 1989; Administrative or project coordinator position; Salary negot. 6-9292

Ph.D., 1987; Immunology, microbiology; Tissue culture, in vitro bioassays, serology, lymphocyte cloning, microsurgery, electrophoresis, gradient fractionation, histology, immunoochemistry, immunofluorescence, laboratory & classroom instruction of dental students; Avail. September 1989; Immune response activation & analysis postdoc. position in academia. 6-9293

Ph.D., 1976; Biochemistry, microbiology, immunology; 15 yr. experience in nucleic acids and mammalian cell biology, CDNA library construction, subfraction hybridization and screening, sequencing, mRNA characterization, cell culture, cytokine and growth factor genes; Canadian citizen; Research associate/industry staff scientist position; Eastern U.S.A. 2-9294

Ph.D., 1980; Biochemistry, endocrinology, cell biology; Intestinal Ca transport, subcellular fractionation, vascular organ perfusion, isoelectric focusing, frozen tissue sections, immunofluorescence microscopy; Avail. September 1989; Tenure-track position in academia; Salary negot. 2-9295

Ph.D., 1989 (expected); Molecular biology; DNA cloning and sequencing, vector construction, site-directed mutagenesis, study of procarcystic gene regulation; Avail. January 1990; Postdoc. in academia/industry/government laboratory; Salary negot. 2-9296

Ph.D., 1989 (expected); Molecular biology, pharmacology, biochemistry; Neonatal developmental regulation of TCDD inducible cytochrome P-450s, including gene isolation and characterization, transcriptional and post-transcriptional characterization; Avail. January 1990; Postdoc. position academia; Salary negot. 3-9297
Ph.D., 1983; Pharmacology, toxicology; Experience in drug induced lung disorders, isolated organ perfusion, glutathione metabolism, organophosphates and metal neuropharmacology, membrane preparation, enzyme assays; Avail. July 1989; Staff or postdoc. position in industry or staff in academia; Salary negot. 3-9298

Ph.D., 1981; Toxicology, pharmacology; Calcium and GSH transport across cell membranes, role of Ca++ in cell death, enzyme kinetics, halolkanephathotoxicity, lethal interaction of chemicals, insecticide effects on neuronal ATPases; Avail. July 1989; Staff position in industry/academia; Salary negot. 3-9299

Ph.D., 1989 (expected); Clinical chemistry; Emphasis on analytical applications of GC/MS, GC and HPLC, experienced in manuscript preparation and use of computers for data analysis; Staff position in industry. 2-9301

Ph.D., 1989 (expected); Pharmacology; Smooth muscle physiology & biochemistry, adrenergic drug mechanisms, aging & diabetes, histology, phosphonoestride metabolism, in vitro muscle preparation, radiolabeling, chromatography, RIA, pharmacognostic field studies, teaching; Avail. 1990; Staff/postdoc. 3-9302

Ph.D., 1989 (expected); Nutritional sciences, biochemistry, analytical chemistry; Micro scale purification and characterization, laboratory animal care, sample collection and experimental procedures, HPLC, NMR, UV, IR and use of radioisotopes; Avail. September 1989; Research/teaching; Salary negot. 5-9303

Ph.D., 1971; Immunology, biochemistry, endocrinology; Tumor immunology, human lymphokines and cytokines, hybridoma and MAb, clinical immunotherapy with MAAb-drug conjugates, protein purification, virology, mechanism of steroid actions; Avail. immediately; Position in academia/industry; Salary negot. 6-9304

Ph.D., 1983; Veterinary and human immunology and parasitology, cell and molecular biology; Cellular/humoral mucosal and systemic immunity (mAb, NK, lymphocyte assays, SDS-PAGE, Westerns, chromatography), cell culture, DNA and RNA isolation and methods up to d.a. cDNA synthesis; Date negot.; Staff position in industry/academia; Salary negot. 6-9305

Ph.D., 1986; Immunology, microbiology; Tissue culture, whole animal experiments, lymphokine bioassays, immunocytochemical staining, ELISA, B cell cloning, macrophage induction/isolation, B cell/T cell subset enrichment, plasmid preparation, DNA/RNA purification, gene subcloning, in situ hybridization; Avail. October 1989; Postdoc. 6-9306

Ph.D., 1989 (expected); Immunology, cell biology; Tissue culture, gene cloning, in vitro transcriotion, electrophoresis, in situ hybridization, ELISA, long term bone marrow culture techniques, FACS analysis, immunocytochemical staining, antibody purification; Avail. September 1989; Postdoc. position in academia. 6-9307

Ph.D., 1979; Immunology, parasitology; Background in tissue culture, bioassays, lymphocyte cloning, hybridomas, biochemistry, cell physiology, animal studies, active, funded research programs in immunomodulation, inflammation, substantial publication record, experience teaching; Research/teaching preferred; Salary negot. 6-9308

Ph.D., 1982; Cardiovascular and renal physiology/pharmacology; Experience in shock, hypertension, renal hemodynamics and electrolyte excretion, whole animal experiments, isolated vascular rings, isolated kidney, isolated perfused tubules, micropuncture, cell culture; Avail. June 1989; Research in academia/industry; Salary negot. 1-9309

M.S., 1989 (expected); Cardiovascular physiology, pharmacology; Surgical preparation and instrumentation of dog for acute and chronic experimentation (isolation and cannulation of coronary arteries and veins, segment-length crystals, Konigsberg microsphere embolization), receptor binding assay, computer; Avail. June 1989; Research assistant. 1-9310

Ph.D., 1987; Physiology, pharmacology; Characterization of membrane receptors, purification of receptors, platelets, smooth muscle cell culture, radioligand binding assays, radiolabeling; Avail. July 1989; Position in industry/academia; Salary negot.; East Coast preferred. 1-9311

Ph.D., 1987; Physiology, exercise physiology; Thermoregulation, energy metabolism, indirect calorimetry, glucose clamp, RIA, computer programming, real-time data acquisition, lecture and laboratory instruction, statistics, medical/surgical veterinary practice; Date negot.; Staff position in academia/industry; Salary negot. 1-9312

Ph.D., 1976; M.B.A., 1988; Biochemistry, cell biology; Extensive experience protein purification and analysis, characterization membrane receptors and signal transduction mechanisms, mammalian cell culture, MAb production, RIA, ELISA, HPLC, laboratory and project management; Avail. immediately; R&D management in industry. 2-9313

Ph.D., 1987; Endocrinology, biochemistry; Mechanism of steroid action, regulation of gene transcription by in vitro techniques, mapping and quantitation of mRNA; Avail. summer 1989; Postdoc. position in academia; Salary negot. 2-9314

Ph.D., 1989 (expected); Biochemistry, cell biology; Tissue culture of endothelial and smooth muscle cells, lipid and fatty acid metabolism, radioisotopes, TLC, large and small animal surgery and catheterization; Avail. fall 1989; Postdoc. position in academia/industry; Salary negot. 2-9315

Ph.D., 1985; Biochemistry, molecular biology; Gene expression, genetic mapping, DNA/RNA isolation and hybridization, DNA cloning and sequencing, gel electrophoresis, protein purification and characterization, HPLC, affinity, paper and column chromatography; Avail. September 1989; Research position industry/assistant professor. 2-9316

Ph.D., 1989 (expected); Nutritional biochemistry; Clinical and metabolic studies of human lactation, quantitative analysis of human milk components, hormone (prolactin) studies, RIA, trace mineral (zinc) and calcium studies, atomic absorbance spectroscopy; Avail. August 1989; Research position in industry/academia; Salary negot. 5-9318

M.Sc., 1976; M.S., 1986; Molecular biology, biochemistry; Protein purification, cell culture, xenobiotic metabolism, DNA isolation, transfection, somatic cell hybridization, DNA probes, affinity chromatography, electrophoresis; Avail. April 1989; Salary negot. 8-9319

Ph.D., 1985; Medical genetics, molecular biology, immunology; Experience in genomic cloning, DNA sequencing, mammalian tissue culture and gene transfection, analysis of transcripts and protein products, in vitro mutagenesis, gene regulation including CAT assays and analysis of nuclear factors; Avail. July 1989; Research position. 2-9320

Ph.D., 1990 (expected); Cardiovascular and cell physiology; Studies on altered vascular response to agonists with application to hypertension, chromatographic techniques, HPLC, RIA, patch-clamp, image processing, laser diffraction techniques, animal surgery; Avail. January 1990; Postdoc. position in academia/industry; Salary negot. 1-9321

Ph.D., 1975; Biochemistry, immunology, genetics/virology; Experience in development of rapid assay for viral diagnosis, background in tissue culture, hybridoma, steroid receptors, carbohydrate and DNA metabolism, protein purification and immunodeficiency disease; Date negot.; Staff position in academia/industry; Salary negot. 6-9324

Ph.D., 1989; Immunology, clinical chemistry; Tissue culture, in vivo/in vitro bioassays, cytokine quantification, purification & biochemical characterization, generation of antigen specific CTL, LAKa, DTH & NK cells, RIA, ELISA, electrophoresis; Avail. July 1989; Molecular biology postdoc. position in academia/academia; Salary negot. 6-9325

Ph.D., 1989 (expected); Microbiology, immunology; Tissue culture, MAb development, in vitro bioassays, protein and carbohydrate antigen purification, antigen detection, ELISA development, chromatography; Avail. May 1989; Postdoc. position in academia/industry; Salary negot. 6-9326

M.D., 1982; Immunology, molecular biology; Characterization of lymphokines in human B cell growth and differentiation, MAb, lymphokine gene expression and cDNA library, lymphokine purification; Avail. summer 1989; Research position in academia/industry; Salary negot.; Canada. 6-9327
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, 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 Mr. Charles C. Hancock, Executive Officer, 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, 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. Any investigator who, through the use of experimental methods, has contributed meritorious work in pathology is eligible for membership. Candidates shall be nominated by two members and those nominations approved by the Council shall be presented to the Association members for election at the next annual business meeting. Additional information and nomination forms may be obtained from Dr. Frances A. Pittleck, 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 Officer, 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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