Membership in the Federation of American Societies for Experimental Biology and in Its Constituent Societies

Membership in the Federation is limited to societies; there is no individual membership. Any society in the field of biological science may apply for membership, either corporate or affiliate, and may be admitted by a three-fourths majority vote of all members of the Federation Board. The societies listed below presently constitute the Federation.

Since requirements and procedures for election to membership in the member societies vary, the following information is provided:

**Corporate Members**

**The American Physiological Society.** Any resident of the Americas who conducts and has published meritorious original research in physiology shall be eligible for proposal for Regular membership. Residents of The Americas who are engaged in research in physiology or related fields and/or teaching physiology shall be eligible for proposal for Associate membership. Residents outside of The Americas who conduct and have published meritorious original research in physiology shall be eligible for proposal for Corresponding membership. Individuals must apply in writing on forms provided by the Society. Two Regular members must sponsor a candidate for membership. Emeritus members also can be sponsors of new members. A Corresponding or Honorary member of the Society may substitute for a Regular member in sponsoring a candidate for Corresponding membership. Council nominates candidates who stand for election by the vote of Regular members at business meetings of the Society. Other classes of membership include Honorary, Emeritus, Associate, Associate Corresponding, Student, and Sustaining Associate. Further information and nomination forms are printed in *The Physiologist* and are available from the APS Membership Services Department, 9650 Rockville Pike, Bethesda, MD 20814.

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

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

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

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

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

**Affiliate Member**

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

Revised August 1989
The calendar is a listing of open meetings of biological topics occurring anywhere in the world. Because of deadline restrictions, we list only meetings taking place more than 3 months after we receive an announcement. Meetings, symposia, and workshops will be included up to 2 years in advance of receipt; international congresses are included up to 3 years in advance. If you would like us to announce your meeting, please include the date and year of the event, its title and location, and a contact name and address and send it to Calendar, The FASEB Journal, 9650 Rockville Pike, Bethesda, MD 20814, USA. A comprehensive calendar is published 4 times a year (January, April, July, and October). Only new listings appear in other months.

New Listings

JUNE 1990
3-7 ASBMB/AAI Annual Meeting, New Orleans, Louisiana, USA. Charles C. Hancock, ASBMB, 9650 Rockville Pike, Bethesda, MD 20814, USA.

9-10 Third Annual AIDS Update, Tulsa, Oklahoma, USA. Dr. Loren G. Martin, Coll. of Osteopathic Med. of Oklahoma State U., 1111 W. 17th St., Tulsa, OK 74107, USA.


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

12-16 ASPET Annual Fall Meeting, Milwaukee, Wisconsin. Kay A. Croker, ASPET, 9650 Rockville Pike, Bethesda, MD 20814, USA.

SEPTEMBER 1990
4-7 Gliol Neuronal Interaction, University of Cambridge, Cambridge, England. Conference Department, The New York Academy of Sciences, 2 E. 63rd St., New York, NY 10021, USA.

10-13 104th AOAC Annual International Meeting and Exposition, New Orleans, Louisiana, USA. Marketing Dept., AOAC, 2200 Wilson Blvd., Ste. 400-CS, Arlington, VA 22201-9907, USA.

15-18 Biochemical Workshop Series, HPLC: Separation and Methods, Kashan, Iran. Dr. Abbas Samadi, Chrmn., Dept. of Biochemistry, Kashan Faculty of Medicine, P.O. Box 317, Kashan, Iran.

21-22 Pathology Update, Westin Canal Place Hotel, New Orleans, Louisiana, USA. Tulane U. Med. Ctr., 1430 Tulane Ave., New Orleans, LA 70112, USA.

OCTOBER 1990
6-10 APS Annual Fall Meeting, Orlando, Florida, USA. APS National Office, 9650 Rockville Pike, Bethesda, MD 20814, USA.

20-24 6th International Symposium on Immunobiology of Proteins and Peptides, Registry Resort, Scottsdale, Arizona, USA. M. Z. Atassi, Dept. of Biochemistry, Baylor Coll. of Med., Houston, TX 77030, USA.

NOVEMBER 1990
1-4 AAP: Concepts in Molecular Biology, Bethesda, Maryland, USA. AAP National Office, 9650 Rockville Pike, Bethesda, MD 20814, USA.

12-14 Aging: Nutrition and the Quality of Life, Melia Don Pepe Hotel, Marbella, Spain. Dr. S. S. Harris, Dir., Human Nutrition Inst., International Life Sciences Inst. Res. Fndn., 1126 16th St., N. W., Washington, DC 20036, USA.


JANUARY 1991

APRIL 1991
21-26 FASEB Annual Meeting, Atlanta, Georgia, USA. Office of Scientific Meetings, FASEB, 9650 Rockville Pike, Bethesda, MD 20814, USA.

MAY 1991
20-24 First European Symposium on Terrestrial Ecosystems: Forests and Woodlands, Florence, Italy. P. Mathy or A. Teller, Congress Centre Piazza Adua 1, I-50123 Firenze, Italy.

SEPTEMBER 1991

22-26 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, Schanzeestrach 1, CH 3051 Berne, Switzerland.

29 Sept. American Physiological Society Annual Fall Meeting, San Antonio, Texas, USA. Dr. Martin Frank, APS, 9650 Rockville Pike, Bethesda, MD 20814, USA.


This section is published as a service to our readers; it is not intended as an endorsement or approval of any product mentioned.

**Ductless fume hood.** Heat Systems Inc. announces its new MYSTaire Model FE-50 ductless fume hood, compact and affordable and protects the operator from odors, particulates, and low-level toxic fumes. It is suitable for use in hospitals, research, academic, and industrial laboratories. A full range of filter media is available from standard activated carbon through to specialty filters for acids, formaldehyde, and mercury vapor. Circle 51 on Reader Service Card.

**Rat albumin ELISA.** NEPHRAT, a self-contained immunospecific ELISA kit for quantitative measurement of rat urinary albumin, gives results in less than 1 hour, and allows for assessment of renal dysfunction in rats in drug development or diabetes studies. The kit has a sensitivity range of between 20 and 1000 µg of albumin per mL of urine, and no pre-treatment of the samples is needed since neat urine is diluted directly into the specially prepared NEPHRAT buffering system and ELISA plate. The test generates consistent, qualitative data with simplicity, speed, and immunospecificity, and requires only water to reconstitute the reagents. Circle 74 on Reader Service Card.

**Genomic DNA isolation—** A.S.A.P.™
Boehringer Mannheim Biochemicals introduces the A.S.A.P. Genomic DNA Isolation Kit, a fast, convenient way to purify intact, high molecular weight genomic DNA without organic solvents. With the specially prepared columns in the A.S.A.P. kit, you can purify high molecular weight genomic DNA from a variety of prokaryotic and eukaryotic sources—in 3 h or less, and without phenol, chloroform, or cesium chloride. A.S.A.P. columns yield 40–200 µg of purified DNA with an A260/A280 ratio of 1.7–1.9, ranging in size from 50–200 kb (determined by pulsed field gel electrophoresis). The column-purified DNA can be used in Southern hybridization, DNA polymerase chain reactions, cloning, and other routine analysis procedures. Circle 66 on Reader Service Card.

**Rapid counting, identification of microorganisms.** Poretics announces improved polycarbonate screen membrane filters for use in epifluorescence microscopy. This technique allows rapid, nonculturing, direct observation and counting of microorganisms in as little as 30 min, in contrast to 18–48 h required for traditional culturing methods. Microorganism counts obtained by using the epifluorescence microscopy techniques represent the total population of viable and nonviable microorganisms. This provides significantly improved sensitivity over traditional culturing and pour-plate procedures. Circle 68 on Reader Service Card.

**Custom immunological services.** BAbCO offers contract immunological services for polyclonal antibody generation in small and large animals; hybridoma development; GMP ascites scale-up production of monoclonal antibodies; immunoassay development; GLP animal model and veterinary sciences studies; and ancillary immunobiochemical services. Antigen preparation, protein isolation, purification, and other biochemical services leading to antibody generation are available. Other services include hapten/peptide-carrier conjugation; antibody purification, fragmentation, and characterizations; enzyme and fluorescent labeling; and immunoassay development using ELISA, PCFIA, and Western blot formats. Circle 73 on Reader Service Card.

**HPLC column for analyzing basic drugs.** Phenomenex has developed an HPLC column for the analysis of basic drugs and other amine compounds. Most HPLC columns give poor chromatographic results for basic compounds due to unwanted acid-base interaction between residual silanol groups on the stationary phase and sample components, which causes poor efficiencies and asymmetric peak shape for basic samples, making sample quantification difficult. The Phenomenex HPLC support eliminates these unwanted interactions between basic samples and silica-based supports. Basic drugs and amines are chromatographed with high efficiency and symmetrical peaks without mobile phase modifiers. The columns are available in all sizes from microbore to preparative. Circle 55 on Reader Service Card.
Safe specimen handling and disposal. The Acculab Sediplast ESR System is a completely closed blood-handling system that protects laboratory personnel from risks associated with the blood during testing and specimen disposal. Sediplast's safety closure system uses a pierceable stopper, ensuring a leak-proof seal during mixing operations and disposal. The automatic self-zeroing cap and reservoir prevent the blood from squiring out of the pipette. Excess flows into a separate closed reservoir, preventing any exposure to the specimen. The system includes a stopped, pre-filled Sedivial with 0.2 ml of 3.8% sodium citrate dilute, eliminating diluent preparation, dilution, and handling steps. Circle 50 on Reader Service Card.

Hydroperoxide assay. The first commercially available kit for the quantitative determination of hydroperoxides is now available. Hydroperoxides are measured using a quick, easy-to-perform colorimetric assay. No extraction is necessary. The assay can be performed in 15 min without expensive equipment. Hydroperoxide values are determined by measuring the formation of methylene blue from a newly developed methylene blue derivative, MCDP. Absorbance values are measured at 660 nm. The assay is linear to 300 nmoles per ml. Circle 49 on Reader Service Card.

Ion exchange glass columns for monoclonal antibody purification. A line of high resolution, prepacked columns for the analytical and preparative separation of biomolecules comes from Waters in the form of Protein-Pak HR (high performance resin) ion exchange columns, which permit direct purification of immunoglobulins from ascites or cell culture supernatants. The Protein-Pak HR series provide high resolution, excellent recovery of protein mass and biological activity and high protein binding capacity. The columns offer a choice of 8, 15, or 40 μm particle-size anion (DEAE) or cation (SP) exchange 1000 Å resins for use at any stage of protein purification. Circle 80 on Reader Service Card.

Enzyme kinetics software. K•CAT for the Macintosh instantly performs enzyme kinetics and inhibition calculations using manually entered rate data or kinetic rate data imported from δ SOFT microplate analysis software. Experimental data are fitted by nonlinear regression to Michaelis-Menten equation to calculate Kₘ, V_max, and Kᵢ. K•CAT enables manual data editing and removal of outliers, data storage, and retrieval. Circle 83 on Reader Service Card.

Literature


From Accurate Chemical, an illustrated catalog of monoclonal antibodies recognizing carbohydrate epitopes; used for research in serology, oncology, infectious diseases. Circle 57 on Reader Service Card.

Compact floor model centrifuges are described in Jouan's color brochure, which details tube sizes, insert capacities, speed, and RCF for each accessory as well as specifications and safety features. Circle 58 on Reader Service Guide.

Fisher BioReagents Sourcebook for Molecular Biology and Electrophoresis indexes the reagents most frequently used in molecular biology and electrophoresis applications, including such technical information as an Agarose Selector Guide and the standard solutions used in SDS-PAGE. Circle 59 on Reader Service Card.

A six-page, four-color brochure from Perkin-Elmer describes the PRO/PETTE® Liquid Handling System for automation of all liquid-handling steps—from dilutions and transfers to repetitive wash steps. Circle 89 on Reader Service Card.
POSITIONS AVAILABLE — Classified advertisement: $25.00 per line (70 characters), $200.00 (8 line) minimum. Display advertisement: $600.00 for ¼ page, 3½ inches × 4⅞ inches; $900.00 for ½ page, 3½ inches × 9⅞ inches (vertical) or 7⅞ inches × 4⅞ inches (horizontal); $1200.00 for full page, 7⅞ inches × 9⅞ 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

POSITIONS AVAILABLE

POSTDOCTORAL/RESEARCH ASSOCIATE. Available immediately to study neural mechanisms of neuroendocrine development and their perturbation by drugs of abuse. Send resume and three letters of reference to Dr. Cynthia M. Kuhn, Department of Pharmacology, Duke University Medical Center, P.O. Box 3813, Durham, NC 27710. Duke University is an equal opportunity/affirmative action employer.

ASSISTANT PROFESSOR. The Department of Chemistry and Biochemistry at Utah State University seeks to fill a tenure-track assistant professor position by fall of 1990. A protein biochemist is sought; specific research area open. Preference will be given to those whose research and teaching complement existing faculty. A Ph.D. is required and postdoctoral experience highly desirable. The candidate will be expected to establish an independent research program. Opportunities are available for research interaction with several interdepartmental programs, including the Molecular Biology Program, Biotechnology Center and Center for Biocatalysis Science and Technology. Submit CV, statement of research plans and three letters of recommendation to Biochemistry Search Committee, Department of Chemistry and Biochemistry, Utah State University, Logan, UT 84322-0300. Closing date is June 1, 1990, but applications will be accepted until the position is filled. USU is an equal opportunity/affirmative action employer.

POSTDOCTORAL. To assist in a project examining mechanisms of T cell activation in cell populations derived from the intestine. Experience with Northern blots, in situ DNA/RNA hybridization and tissue culture required. Position available in June 1990. Salary commensurate with experience. Send CV and the names of two referees to S. Hamlin, James A. Baker Institute for Animal Health, New York State College of Veterinary Medicine, Cornell University, Ithaca, NY 14853.

NUTRITIONIST. The Department of Animal Science, University of California, Davis seeks a nutritionist to fill an eleven-month, tenure-track position at the assistant professor/assistant nutritionist level in the Agricultural Experiment Station. A Ph.D. in animal nutrition or related field is required. Basic training at the cellular or subcellular level is desired. Experience working with intensively or extensively managed ruminants is essential. Teaching responsibilities will be within the appointee's area of specialization with a load equivalent to one course per quarter. The appointee will be expected to contribute to the advising of undergraduate students and training of graduate students. Research emphasis will be in beef cattle nutrition. Submit CV, official transcripts, list of publications, a statement of research and teaching interests and names and addresses of three professional references by June 1, 1990 to R. L. Baldwin, Search Committee Chair, Department of Animal Science, University of California, Davis, CA 95616 (916) 752-1250 or 2951. The University of California is an affirmative action/equal opportunity employer.
FACULTY POSITION IN BIOLOGICAL APPROACHES TO TARGETED DRUG DELIVERY

A full-time position is available in the University of Nebraska College of Pharmacy, Department of Pharmaceutical Sciences for a faculty member with interests in the biological effects of drugs and chemicals who will provide expertise in biological approaches to targeted drug delivery. Biological approaches are broadly defined but not limited to include the areas of immunology, microbiology, molecular biology, physiology, toxicology and pharmacology. The College of Pharmacy is located on the University of Nebraska Medical Center Campus, which includes the Eppley Cancer Institute. The Department is undergoing a strong developmental phase with the acquisition of an endowed chair and a planned Center for Excellence in Biopharmaceutical Research. The Medical Center is part of a multicampus university with shared research support facilities. The successful applicant will develop an independent research program in the College and participate in professional and graduate education. Opportunities exist for additional leadership roles and administrative responsibilities in the College. Applicants with an earned doctorate, and established research and funding records are sought. Rank and salary are dependent on previous experience. Applicants should submit a CV and names of three references to Chair, Search Committee, Position #8-8095, Department of Pharmaceutical Sciences, College of Pharmacy, University of Nebraska Medical Center, 600 South 42nd Street, Omaha, Nebraska 68198-8025. Applications will be accepted until the position is filled.

The University of Nebraska is an affirmative action/equal opportunity employer.

ASSISTANT/ASSOCIATE PROFESSOR. Tenure-track position at the assistant/associate level available to begin August 1, 1990. Applicant must possess earned doctoral degree with extensive training in physiology and three or more years of postdoctoral experience. Area of expertise open. All candidates must have a commitment to teaching and document the potential to develop and sustain a fundable independent research program. An associate level appointment will require five or more years as an assistant professor or equivalent experience, a record of extramurally funded research, publications and experience in graduate medical education and graduate training. Currently the department has 8 faculty members representing a wide range of molecular, cellular and systems-oriented research in the physiological sciences. There are opportunities for collaborative research within the department or through medical school research groups in diabetes, cancer, neuroscience, immunology, allergy and cardiovascular studies. Candidates should submit a CV and have three references sent to Chairman, Assistant/Associate Professor Search Committee, Department of Physiology, East Carolina University School of Medicine, Greenville, NC 27858. Screening of applicants will begin May 1, 1990. East Carolina University is an AA/EEO employer. Federal law requires proper documentation of identity and employability at the time of employment.

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

JUNIOR FACULTY/INSTRUCTOR. Isolation and characterization of transcription factors regulating pancreatic gene expression. Postdoctoral training in protein purification and molecular biology techniques is required. Send CV, summary of previous research experience and two letters of reference to Dr. Raymond J. MacDonald, Department of Biochemistry, The University of Texas Southwestern Medical Center at Dallas, 5323 Harry Hines Boulevard, Dallas, TX 75235-9038. University of Texas Southwestern Medical Center is an equal opportunity employer.

CELL/MOLECULAR PHYSIOLOGIST. The Department of Physiology, Medical University of South Carolina, Charleston, South Carolina invites applications for a tenure-track faculty position at the rank of assistant/associate professor. Applicants should have a Ph.D. or M.D. and postdoctoral research experience. We are particularly interested in individuals who have an established or promising investigative program using cellular, biophysical and/or molecular approaches to physiological problems. Preference will be shown to individuals studying mechanisms of signal transduction, function of membrane proteins, receptors, channels and regulation of gene expression and whose research complements existing departmental programs and future developments in molecular, cellular and molecular endocrinology, immunology, membrane biology and cellular neurophysiology. Excellent opportunities exist for participation in several established thematic interdisciplinary programs in Neuroendocrinology, Circulatory Shock, Cardiology, Neurotrauma and Epithelial Transport. Substantial startup funds are available. Applicants should send CV, current reprints, a statement of research interests and career goals, names and addresses of three references to Dr. J. G. Ono, Department of Physiology, Medical University of South Carolina, 171 Ashley Avenue, Charleston, SC 29425. An affirmative action/equal opportunity employer.

CHAIRMAN. The Texas College of Osteopathic Medicine is now accepting applications for Chairman of the Department of Anatomy and Cell Biology. The department currently has 12 faculty members whose research covers a wide variety of areas. Viable candidates should have an established research program, teaching experience (preferably medical) and demonstrated managerial skills. Applications must be received by June 1, 1990 and be accompanied by a CV and a list of three individuals who may be contacted as references. Applications should be sent to Dr. Paul F. Cook, Chairman, Anatomy, Research Committee, Department of Cell Biology and Immunology, Texas College of Osteopathic Medicine, 3500 Camp Bowie Boulevard, Fort Worth, TX 76107-2690. Texas College of Osteopathic Medicine is an equal opportunity/affirmative action employer.

FACULTY, CELLULAR/MOLECULAR BIOLOGIST. Strong physical science, mathematics or engineering background, individual who views mathematics and physical science as natural accompaniments to molecular and cellular experimentation. Appropriate research interests include, but are not limited to, structure-function relation of molecular assemblies, gene regulation and expression or second-messenger control systems. Candidates must have an earned doctoral degree and demonstrated independent research productivity and must be capable of attracting peer-reviewed research support. Qualified candidates should submit CV, list of publications, up to three selected reprints, a statement of research plans and the names of three referees whom we can contact to Department of Biomedical Engineering, 710 Traylor Building, The Johns Hopkins School of Medicine, 720 Rutland Avenue, Baltimore, MD 21205. Candidates and referees are encouraged to apply. The Johns Hopkins University is an equal opportunity/affirmative action employer.

RESEARCH ASSISTANT PROFESSOR. Faculty position. Responsibilities include research and teaching. Ph.D. in pharmacology or related field; postdoctoral experience of three or more years required. Expertise in platelet activating factor; platelet membrane glycoprotein/receptors, protein phosphorylation, immunological techniques preferred. Send CV and names of three references to Dr. Shirendra D. Shukla, Department of Pharmacology, University of Missouri School of Medicine, Columbia, MO 65212. An equal opportunity employer.

ASSISTANT SCIENTIST/PART-TIME INSTRUCTOR. Ph.D., biochemistry. Teaching and postdoctoral research required. Experience required with proteins, enzymes, molecular and cellular biology approaches to purification, molecular basis of genetic diseases, site-directed mutagenesis, and DNA-mediated gene transfer. Teaching responsibilities in advanced biochemistry courses (Medical Biochemistry and Molecular Biology). Send CV and names of two references to Dr. Robert A. Harris, Department of Biochemistry, Indiana University School of Medicine, Indianapolis, IN 46202-5122. Indiana University is an equal opportunity/affirmative action employer, M/F.

POSTDOCTORAL RESEARCH ASSOCIATES. To investigate the mechanisms responsible for regulation of insulin sensitivity in muscle in response to exercise and diabetes. Ph.D. with experience in cellular and/or molecular biology desirable. Send CV and names of three references to Dr. G. Lynis Dohn, Department of Biochemistry, School of Medicine, East Carolina University, Greenville, NC 27828. East Carolina University is an AA/EEO employer. Federal law requires proper documentation of identity and employability at the time of employment.

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POSITIONS DESIRED

Ph.D., 1979; Biochemistry, molecular biology; Protein and RNA purification, production of plasmid and phage cDNA libraries, immunoscreening, hybrid selection, Northerns, Southern's, DNA sequencing, PCR cloning; Avail. May 1990; East; Research in academia/industry; Salary negot. 2-0036

Ph.D., 1983; Aerospace, environmental, systemic physiology; Gravitational physiology, acceleration protection, life support, electron microscopy, autoradiography, toxicology, human factors engineering, product development, computer display design; Avail. March 1990; Research/teaching/product development; Salary negot.; Western US. 2-0026

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

Ph.D., 1990 (expected); Reproductive physiology, neuroendocrinology; Animal surgery, gonadotropin and steroid radioimmunoassay, in vitro hypothalamic and pituitary cultures, dot blot hybridization, receptor binding assays; Postdoc. or faculty position; Avail. June 1991; Salary negot. 1-0319

Ph.D., 1983; Molecular biology, protein/lipoprotein chemistry, immunology; Cloning (Lambda II Zap, Baculovirus), PCR, Northern/Southern/Western blotting, protein/lipoprotein purification (all forms of chromatography, gel electrophoresis), enzyme kinetics, tissue culture; Avail. September 1990; Academia/industry/government. 2-0335

Ph.D., 1975; Biochemistry, biophysics, pharmacology, toxicology; Medical school faculty 12 years, research grants, oxygen radicals, mitochondrial bioenergetics, protein chemistry, spectroscopy, kinetics; Faculty position in basic science department/pharmaceutical research or technical writing; Salary negot. 2-0343

Ph.D., 1987; Molecular/cell/neurobiology, virology (HIV-1, HTLV-I); DNA, RNA preparation, polymerase chain reaction, Southern/Northern analyses, DNA sequencing, tissue culture, immunocytochemistry, enzyme assays; Avail. September 1990; Research assistant/postdoc. in research institute/industry/academia; Prefer Seattle area. 2-0344

Ph.D., 1990 (expected); Vascular physiology/pharmacology; Tissue culture, in vitro bioassays/superfusion bioassay, radioimmunoassay, enzyme immunoassay, HPLC, TLC, lipid biochemistry; Avail. January 1991; Postdoc. in academia; Salary negot. 3-0345

Ph.D., 1988; Immunology/molecular biology; Cell culture, MAb production and conjugation, in vitro bioassays, injection and antigen production, immunofluorescence microscopy/photography, T/B lymphocyte cloning, gel electrophoresis, molecular cloning techniques, Northern/Southern blotting; Avail. April 1990; Research; Salary negot. 6-0346

Ph.D., 1982; Microbiology, cell biology, molecular biology; Tissue culture, in vitro bioassays, interferon and IL-2 production, mouse and human karyotypes, gene transfer techniques, libraries, screening, cloning, Southern/Northern/Western blotting, DNA and RNA sequencing; Avail. December 1990; Research; Salary negot. 6-0347

Ph.D., 1987; Molecular immunology; Molecular cloning, cDNA library construction, RT-PCR, site directed mutagenesis, cDNA transfections, 1st culture and purification of CD4+ cells, expert in lymphokine field; Avail. July 1990; Academia/industry. 6-0348

Ph.D., 1977; Molecular biology; Parasitology, tumor biology, transmission electron microscopy, glycosaminoglycans, complex carbohydrates, proteases, heat shock proteins, plasma membranes, extracellular matrix, gel electrophoresis, tissue culture, gas-liquid chromatography; Avail. June 1990; Research/teaching; Western states. 2-0349

Ph.D., 1990 (expected); Biochemistry; Enzyme purification, enzyme kinetics, HPLC, GC, gel electrophoresis, Western blotting, immunoprecipitation, uv; and fluorescence spectroscopy; Avail. July 1990; Postdoc. in academia/industry. 2-0350

Ph.D., 1990 (expected); Biomedical sciences, physiology; Gel electrophoresis, densitometry, cell biology, HPLC, computer programming, data control and acquisition, immunofluorescence microscopy/photography; animal surgery, stereotactic manipulation; Avail. July 1990; Postdoc. in academia; Salary negot. 1-0351

Ph.D., 1983; Renal physiology; Large and small animal models of renal physiology and pathophysiology, hemo- and peritoneal dialysis, mechanisms of hormone responses; Avail. June 1990; Research/teaching; Salary negot. 1-0352

Ph.D., 1990 (expected); Immunology, microbiology; Solid-phase enzyme immunoassay, lymphocyte proliferation assay, fluorescence microscopy, tissue culture, lymphocyte separations, immunohistochemistry, FACS, PAGE, Western blot, quantitative bacteriology, aerosol infections; Avail. September 1990; Postdoc. in academia/industry. 6-0354

Ph.D., 1990 (expected); Nutritional physiology/biochemistry; In vitro adipose tissue metabolism, lipogenesis, esterification, lipolysis, isoacute usage, 14C, 125I, 32P, cell sizing by Coulter counter, RIA-estradiol 17B, restriction enzyme digestion, Southern's, phage DNA preparations, DNA sequencing; Avail. June 1990; Postdoc. 5-0357

Ph.D., 1990 (expected); Nutritional biochemistry; Lipid methodology (GC, TLC, extraction), human nutrition clinical studies (human milk, taste and smell), diet counseling, college teaching; Avail. September 1990; Research or research/teaching; Salary negot. 5-0358

Ph.D., 1990 (expected); Respiratory, muscle and exercise physiology; Animal surgery, acute and chronic preparations, respiratory muscle mechanics, electromyography, sonomicrometry, pulmonary function, exercise testing; Avail. December 1990; Research/teaching; Salary negot. 1-0359

Ph.D., 1972; Biochemistry; Protein/enzyme/peptide purification & characterization, affinity labeling, ion-exchange & affinity chromatography, HPLC & FPLC, electrophoresis, salt fractionation, centrifugation; Avail. May 1990; Basic research/teaching or applied enzymology; Salary negot. 2-0360

Ph.D., 1988; Physiology, respiration; Single nerve fiber recording, respiratory reflexes and mechanics in whole animals, respiratory adaptations, acid-base and salt and water balance in awake animals, animal surgery skills; Avail. January 1991; Staff position in academia/industry; Eastern Canada/Northeast U.S.; Salary negot. 1-0361

Ph.D., 1989; Microbiology, molecular biology; Protein purification, gel electrophoresis; Postdoc. in academia; Avail. May 1990; Salary negot. 2-0362

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

Ph.D., 1984; Biochemistry; Plasma membrane & calpain preparations, protein/enzyme purification, conventional & affinity chromatography, FPLC, gel electrophoresis, Western blotting, HPLC, isoelectric focusing, autoradiography, ELISA, clotting assays; Avail. August 1990; Research in industry/government/academia; Salary negot. 2-0364

Ph.D., 1990 (expected); Pharmacology, toxicology, neurobiology; Subcellular fractionation, SDS-PAGE 1-D/2-D, measurement of membrane potential (radio-label), free fatty acid analysis, phospholipid analysis (PLA, activity), TLC, laser densitometry, IBM software; Avail. October 1990; Research/teaching/regulatory; Salary negot. 3-0365

Ph.D., 1981; Molecular biology, biochemistry; DNA-protein interaction, regulation of gene expression, purification, characterization, and cloning of transcription factors, band-shift assay, DNA footprinting, oncogene, protein and nucleic acid purification, blotting; Avail. July 1990; Research scientist/assistant professor in academia/industry. 2-0368

Ph.D., 1988; Biochemistry, cell biology, molecular biology; Lipid biochemistry and enzymology, electron microscopy, tissue culture, Western/Southern/Northern blotting, gene transcriptional analyses; Avail. May 1990; Industrial research staff; Salary negot. 2-0369

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Ph.D., 1988; Toxicology; Heavy metal poisoning, chelation therapy, RIA, radiolabelling of protein, metal estimation, chemical analysis of environmental samples, experience in academic & industrial laboratories, reviewed publications; Avail. June 1990; Postdoc./research in academia/industry; Salary negot. 3-0370

Ph.D., 1987; Nutrition, biochemistry, endocrinology; Tissue culture, animal studies, intracellular Ca²⁺ measurement, polyphosphoinositide turnover, RIA, enzyme assays, diet design, spectrophotometric and fluorometric analyses, TLC, GC, computer analyses and graphics; Avail. June 1990; Industry/academia/government; Salary negot. 5-0371

M.S., 1990: Reproductive endocrinology, immunology, cell biology, toxicology; RIA, ELISA, injections and antisera production, cell culture, gel filtration chromatography, gel electrophoresis, Western blotting, immunohistochemistry, protein determination, liver perfusion, in vivo bioassay, animal surgery; Avail. May 1990; Research. 8-0372

Ph.D., 1976; Biochemistry, cell biology, microbiology; Drugs/antibiotics evaluation & analysis, toxicology, enzyme kinetics, ion transport, membrane structure-function, ten years research experience in gastric acid secretion; Avail. July 1991; Research/industry. 2-0373

Ph.D., 1991 (expected); Neuropharmacology, cell biology, biochemistry; Fluorimetric techniques including intracellular ion quantitation in suspended cells, tissue culture, radioligand binding, in vitro bioassays, column and thin layer chromatography, molecular biology, gel electrophoresis, toxicology; Avail. June 1991; Postdoc. in academia/industry. 3-0375

Ph.D., 1990 (expected); Human nutrition, nutritional biochemistry, exercise physiology, extension, education; Dietary intakes (especially of calcium and trace minerals), dual and single photon absorptiometry bone densitometry, anthropometry, indirect calorimetry; Avail. August 1990; Research/teaching; Salary negot. 5-0376

Ph.D., 1988; Immunology, cell biology, rheumatology; Tissue culture, MAb techniques, gel electrophoresis, Ab/Ag purification, ELISA, immunoblotting, immunofluorescence, immunoprecipitation, DNA PCR-amplification, cloning, and sequencing, supervisory experience; Avail. May 1990; Research in industry/academia; Salary negot. 6-0377

Ph.D., 1990 (expected); Biomedical engineering, cardiovascular control systems, microcirculation; Servo-null pressure measuring, small and large animal surgery, carotid sinus region surgical isolation, mathematical computer analysis and modeling; Avail. January 1991; Postdoc. in cardiovascular systems; Baltimore/Washington, D.C. area. 1-0378

Ph.D., 1987; Physiology; Canadian Heart Foundation postdoc., 1988-1990; Cardiovascular physiology, animal surgery and anesthesia, in vitro and in vivo intra- and extracellular recording, neuroanatomy, analog and biotechnology equipment design and construction; Avail. September 1990; Assistant professorship; Salary negot. 1-0379

Ph.D., 1987; Pharmacology, biochemistry; Radioligand binding assays, enzyme kinetics, membrane protein purification, chromatography, HPLC, gel electrophoresis, Western blotting, molecular biological techniques, Northern/Southern hybridizations, RFLP analysis, cell culture; Avail. May 1990; Research in industry/academia; West. 2-0380

Ph.D., 1988; Protein purification; In vitro bioassays, radioimmunoassays, ELISA, production of polyclonal antibodies, gel electrophoresis and chromatography techniques, clinical studies; Avail. May 1990; Research/teaching; Salary negot. 2-0381

Ph.D., 1984; Biochemistry; Gas chromatography, gel electrophoresis, radioimmunoassay, stop-flow spectrophotometry, French press, differential scanning calorimetry, column chromatography; Avail. June 1990; Research; Salary negot. 2-0383

Ph.D., 1990 (expected); Pharmacology, cell physiology, membrane transport; In vitro and in vivo transport studies, liquid scintillation spectrophotometry, fluorimetric and spectrophotometric assays, gas chromatography, atomic absorption spectroscopy; Avail. September 1990; Postdoc.; Research; Salary negot. 3-0384

Ph.D., 1987; Cardiovascular pharmacology/physiology; Anesthesia and surgery, chronic and acute monitoring of CSF pressure, cardiovascular performance, and pulsed Doppler blood flow, stimulation and lesioning of hemodynamic brain regions, histological techniques, computer assisted data acquisition and analysis; Avail. June 1990; Industry. 3-0386

Ph.D., 1990 (expected); Nutritional biochemistry; Isolation & identification of macropaghes, neutrophils, lymphocytes, quantitation of O₂ chemiluminescence, enzyme assays, microbiological assay for candidacidal activity, hemaggutination, mitogenic assay, micronutrient analysis by flame & flameless AAS; Avail. June 1990; Research. 5-0388

Ph.D., 1990 (expected); Chemical engineering; Applications of transport phenomena, kinetics to biological systems, cell bioengineering, mathematical modeling of physiological systems, collaborative research with physiologists, computer skills; Avail. July 1990; Research in academia/industry. 1-0389

Ph.D., 1990 (expected); Biophysical chemistry, physical inorganic chemistry; NMR spectroscopy, EPR spectroscopy, high performance liquid chromatography, radioactive techniques, inorganic synthesis, protein purification and enzyme kinetics; Avail. September 1990; Postdoc. in academia/industry; Salary negot. 2-0390

Ph.D., 1990 (expected); Pharmacology; Isolated tissue bath preparations, autoradiography, thin layer chromatography, in vitro enzyme bioassays; Avail. July 1990; Postdoc. in academia or industry; Salary negot. 3-0391

Ph.D., 1987; Cardiovascular pharmacology/physiology; In vitro blood vessel preparations including isolated, perfused microvessels (50 um arterioles), fluorescence microscopy, radioligand binding, 12 years teaching experience; Avail. August 1990; Research/teaching position in academia or industry; Salary negot. 3-0392

Ph.D., 1990 (expected); Nutrition, cancer, toxicology; HPLC protein/thiol analyses, cytchrome P450 and oxidative stress, mouse-skin tumor-promotion bioassays, diet design and preparation (animal/human), thyroid hormone (RIA), gels and Northern blots, animal surgery; Postdoc. in academia/industry/government. 5-0393

Ph.D., 1988; Immunotoxicology; Neuroendocrine/immune system interactions, cellular immunology, cell culture, in vitro assay systems, ELISA, FIPA, MAB production and conjugation, flow cytometric analysis, experience with mammalian & avian systems; Avail. October 1990; Staff position in academia or industry; Salary negot. 6-0394

Ph.D., 1990 (expected); Cell biology, vascular physiology, Tissue culture, in vitro bioassays, immunofluorescence microscopy, 2-dimensional gel electrophoresis, Western blot, radioimmunoassay; Avail. January 1991; Postdoc. in academia; Salary negot. 7-0395

M.S., 1990 (expected); Biomedical engineering, mechanical engineering (E.I.T. licensed); R&D & testing of steerable catheter including engineering reports, process/product qualification, manufacturing & production (in clean room) of catheter, documentation; Avail. July 1990; R&D of medical devices; Salary negot. 8-0396

M.D., Ph.D., 1987; Physiology, pharmacology; Neural control of circulation and respiration, smooth muscle E-C coupling, brain stimulation, measurements of cardiovascular and respiratory variables, neural activity, microvascular diameter, smooth muscle tension and intracellular pH and Ca; Avail. September 1990; Research/teaching; Salary negot. 1-0399

Ph.D., 1987; Biochemistry, pharmacology; Hormone receptor biochemistry, receptor effector coupling, signal transduction, assay of cAMP, inositol phosphates, eicosanoids, calcium, receptors, transfection and expression of receptor proteins; Avail. January 1991; Research/teaching in academia/industry; Salary negot. 2-0400

Ph.D., 1981; Zoology; M.B.A., 1982; Immunology/hypersensitivity; FPLC, electrophoresis, ELISA, affinity chromatography, Western blot, injections and antisera production; Avail. June 1990; Industry R&D or environmental laboratory; Salary negot. 2-0401
Ph.D., 1978; Pharmacology, toxicology, biochemistry; In vitro/in vivo model development to assess drug efficacy, potency, toxicity, risk assessment, use of affinity purified enzymes, HPLC, radioisotopes, spectrophotometric methods, inhalation toxicology & environmental concerns; Avail. May 1990; Industry/government; Salary negot. 3-0402

Ph.D., 1980; Pharmacology; Characterization of adrenergic and muscarinic Ch receptors, isolated tissues set up, plasma membrane preparation, cardiac and vascular tissues, radioligand binding, adenyl cyclase, GTPase, PKC activation, PI radiolabelling, 10 years teaching and research; Avail. July 1990; Staff position in academia/industry. 3-0403

Ph.D., 1989; Pharmacology, biochemistry, neuroscience; HPLC, radio-enzymatic assays, large and small animal surgery, in vitro bioassays, cardiac electrophysiological testing, drug screening; Avail. July 1990; Research/teaching; Salary negot. 3-0404

Ph.D., 1982; Pharmacology, cardiovascular; In vivo and in vitro, intact and chemically skinned vascular smooth muscle, calcium fluxes, measurement of intracellular calcium in cells and intact tissue, primary culture of VSM cells, receptor analysis by pharmacological methods, receptor binding; Avail. August 1990; Industry; Salary negot. 3-0405

Ph.D., 1990 (expected); Nutrition, endocrinology; Growth and development, in vitro brain perfusion, animal surgery, radiimmunoassays, molecular biotechnology, HPLC (reverse gel filtration); Avail. March 1991; Postdoc. in academia/industry; Salary negot. 3-0406

Ph.D., 1986; Nutrition, aging, ovarian hormone and bone physiology; Postdoc. experience, osteoporosis research in human population, hormonal, hormonal, physiological determinants of bone mass, radiotracer techniques in rats, radioreceptor assays, RIA; Avail. October 1990; Academia/government/industry; Salary negot. 5-0409

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

Ph.D., 1987; Exercise physiology, muscle fatigue, cell biology; Human performance, in vivo NMR spectroscopy & imaging, fluorimetry, electrochemical detection, confocal microscopy, image processing; Avail. June 1990; Research/clinical studies/teaching in academia/industry/government; Salary negot.; Berkeley/San Francisco area. 1-0414

Ph.D., 1990 (expected); Respiratory physiology, exercise physiology; Respiratory mechanics, gas exchange, respiratory muscle fatigue, expiratory muscle regulation, nerve stimulation, EMG analysis, clinical and basic research; Avail. November 1990; Postdoc. or staff position in academia/industry/government; Salary negot. 1-0415

Ph.D., 1981; Physiology, zoology; Histology, histochemistry, tissue culture, enzyme kinetics study, spectroscopy, ELISA, experimental endocrinology, chromatography and electrophoresis; Avail. April 1990; Postdoc. in academia/industry; Salary negot. 1-0416

Ph.D., 1988; Neuropharmacology, neurochemistry, molecular biology; Tissue culture, HPLC, antibody purification, protein and RNA isolation; Avail. August 1990; Research/teaching; Salary negot.; Arizona, Northern California. 3-0417

Ph.D., 1991 (expected); Endocrinology, neurobiology; Cell culture, HPLC, immunohistochemistry; column chromatography, radiimmunoassay development, in vitro hormone secretion, peptide isolation; Avail. May 1991; Postdoc. in academia/industry; Salary negot. 7-0418

M.S., 1990 (expected); Nutrition, biochemistry, biology; Protein/enzyme isolation, purification, and characterization, ion-exchange, exclusion, and affinity chromatographies, PAGE, SDS-PAGE, SDG centrifugation; Avail. July 1990; Research technologist in academia, industry, government; Salary negot. 8-0419

Ph.D., 1985; Biochemistry, physiology; Tissue culture, in vitro assays, small animal surgery, chromatography, RIA, gel electrophoresis, isoelectric focusing, autoradiography; Avail. November 1990; Industry/research; Salary negot. 2-0421

M.D., 1965; Postdoc. research associate, 1988-1990; Molecular biology; Hemocytometry, Southern blotting, PCR, sequencing for Phenylketonuria (PKU); Avail. May 1990; Research; Salary negot. 2-0422

Ph.D., 1990 (expected); Molecular biology, biochemistry, microbiology, immunology; DNA cloning and sequencing, PCR, transcript mapping, enzyme kinetics, Southern and Northern blotting, colony hybridization, mutant identification, anaerobic techniques, gene regulation; Avail. January 1991; Postdoc. in academia/industry; Salary negot. 2-0423

Ph.D., 1987; Toxicology, pharmacology; Whole body autoradiography, inhalation toxicology, toxicity of organic solvents and anesthetics, in vitro hepatotoxicity; Avail. May 1990; Position industry, contract laboratory; Salary negot. 5-0425

Ph.D., 1985; Nutrition, bacteriology; Lipid & protein metabolism, stable isotopes, mass spectrophotometry, rare earth elements, direct emission current plasma, radiimmunoassays, anaerobic microbiology, continuous and batch fermentors; Avail. September 1990; Research/teaching; Salary negot. 5-0428

Ph.D., 1987; Nutrition, nutritional biochemistry, nutritional epidemiology; Retinoid/carotenoid metabolism, enzymology of carotenoid cleavage, protein isolation, characterization and purification, radioactive labeling, HPLC; Avail. May 1990; Academia, industry, research. 5-0429

Ph.D., 1965; Tumor immunology, immunochemistry; Hybridoma technology, recombinant DNA; Teaching experience; Independent position; Salary negot. 6-0430

M.S., 1988; Nutrition, biology, cell biology, mammalian anatomy, physiology; Biochemical assays, cell culture, animal handling and surgery (experimental swine), ultracentrifugation, TLC, GC, microcomputers, photography; Avail. June 1990; Research/development, industry or government; Salary negot. 8-0431

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

Ph.D., 1984; Biochemistry; Fluorescence microscopy, tissue culture, research grant and publications, laboratory supervision and independent research program; Avail. June 1990; Assistant professor or equivalent in industry/government; Salary negot. 2-0434

Ph.D., 1986; Animal nutrition, physiology, biochemistry; Tissue culture, receptor purification, receptor binding assay, immunoprecipitation, immunofluorescence, MAB production & purification, gel electrophoresis, GC, AA, Western blotting, protein purification & iodination; Avail. June 1990; Industry/government; Salary negot. 3-0435

Ph.D., 1985; Physiology, membrane biochemistry; Membrane transport, lipid analysis, HPLC, GLC, physiology of aging, food restriction, neuropharmacology, model of Alzheimer's disease, brain phospholipid and arachidonic acid turnover, neurotoxin, cholinergic parameters; Avail. August 1990; Academia/industry; Chicago area; Salary negot. 1-0436

Ph.D., 1984; Endocrinology, reproduction, physiology; Radioreceptor assays, RIA, bioassays, ELISA/hybridoma production, chromatography, HPLC-ED, gel electrophoresis, AAS/trace metal nutrition, animal surgery, computers (IBM/BASIC programming/SAS); Avail. May 1990; Government/industry/academia; Washington DC/metro area. 1-0437

Ph.D., 1988; Toxicology, nutrition; Molecular biology, cloning, sequencing, Western/Southern/Northern blotting, colony hybridization, protein purification, characterization, HPLC, antisera production, spectrophotometry, small animal surgery; ELISA, in vitro bioassays; Avail. July 1990; Research/administration; Salary negot. 2-0438

Sc.D., 1986; Molecular/cell biology; Tissue culture, Southern and Northern blotting, phage library preparation and screening, cloning, DNA/RNA sequencing, site-directed mutagenesis, DNA transfection and PCR; Avail. July 1990; Research/teaching; Salary negot. 2-0439
Ph.D., 1990 (expected); Neuroscience, toxicology; Tissue culture, radioligand binding/uptake, CNS slice preparation, HPLC, stereotoxic surgery, enzyme assay/kinetics, computer (C, BASIC); Avail. September 1990; Postdoc. in academia/industry; Baltimore-Washington D.C. area; Salary negot. 3-0440

M.D., 1978; Immunology, immunotoxins, neuroimmunology; Tissue culture, gel filtration chromatography, SDS-PAGE, Western/Southern blotting, IEF, RIA, ELISA, animal immunization and antisera production, MAb production and hybridoma techniques; Avail. September 1990; Research in academia/industry; Salary negot. 6-0442

M.S., 1990; Nutrition; Metabolic principles of nutrition, nutritionally related disease in infants & adolescents, perspectives in public health nutrition; B.S., 1988, biology; Avail. April 1990; Research; Salary negot. 8-0443

M.S., 1989; Electrophysiology, cell biology; Intracellular recording transmembrane potential & ion activity with conventional & ion-selective microelectrodes, bacteria culture, SDS-gel electrophoresis, gel-filtration chromatography, clinical work; Avail. May 1990; Research assistant. 8-0444

Ph.D., 1983; Biochemistry, cell biology; Enzymology, radioisotope usage, cell culture, in vitro bioassays, MAb production and conjugation, antisera production, protein purification, liposomal technology, immunological techniques; Avail. June 1990; Research/teaching; Salary negot. 2-0445

Ph.D., 1990 (expected); Molecular biology (genetics, immunology, virology); Cloning, sequencing, restriction mapping, Southern blotting, construction of library, PCR, tissue culture, polyclonal and MAb preparation, SDS-PAGE, ELISA, RIA, purification and identification of viral antigen; Avail. August 1990; Postdoc. academic research. 2-0447

Ph.D., 1987; Molecular biology; DNA cloning and sequencing, vector construction, transfections, hybridization analyses, gene mapping, RFLP analysis, PCR technology, research experience in oncogene/anti-oncogene control of tumors, MHC immunogenetics; Avail. June 1990; Industry; Salary negot.; PA, DE, NJ, NY, MD, areas. 2-0448

Ph.D., 1990 (expected); Biochemistry, nucleic acid chemistry; Protein-RNA interactions, RNA structure/function, macromolecular conformations, thermodynamics, site-directed mutagenesis, cloning, large scale DNA/RNA/protein purification, DNA sequencing, RNA synthesis; Avail. January 1991; Molecular biology postdoc. 2-0449

Ph.D., 1979; Vertebrate biologist, physiologist; Physiological ecology, field & laboratory research, fish to endangered mammals, metabolic studies, temperature regulation, heat transport/transfer, blood volume/composition, sterile surgery, statistics, data-base construction, computerized data collection, instrument interfacing; Teaching/research. 1-0451

Ph.D., 1990 (expected); Nutrition, physiology, cell biology, biochemistry; Protein purification and characterization in vitro and in vivo, immunological analyses, radionuclide use, cell culture work, small animal surgery; Postdoc.; Avail. October 1990; Salary negot. 5-0452

Ph.D., 1981; Immunology, microbial infections, cancer, nutrition; Techniques for demonstrating antibody & cell-mediated response & molecular biology, in vitro cell culture, MAb production, antigen preparation; Avail. July 1990; Research/teaching; Salary negot. 6-0453

Ph.D., 1987; Cell biology, biochemistry; Flow cytometry, immunofluorescence, photomicroscopy, cell culture, intermediary metabolism, lipid chemistry, receptor-ligand binding, organ perfusion; Avail. July 1990; Research/teaching; Salary negot. 7-0454
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Although well known for his contributions to the study of bacterial gene regulation, and his innovative multidisciplinary research in carcinogenesis and mechanisms of aging, Berkeley Professor Bruce Ames is best known for a simple test that bears his name. The “Ames test” is a rapid and inexpensive test that allows for the detection of mutagens and possible carcinogens. The work of Ames and his colleagues helped to provide major support for the idea that DNA damage was an important part of carcinogenesis. It also helped make the world a safer place to live.

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Gilson fraction collectors have always been reliable. Our newest offers 98% problem-free performance.

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Stationary rack system is one of our secrets to problem-free performance.

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Built for long-term use...inside and out.

To assure optimal performance over time, internal drive components are designed for long-term use—even in the cold room. Critical components are metal, rather than plastic, for long-lasting operation.

And, the exteriors of Gilson fraction collectors are durable, too. For example, the FC 203 features a chemically-resistant molded case and keypad to protect the unit inside and out from spills.

Day-in and day-out convenience, too.

We also build Gilson fraction collectors for easy installation and use. It starts with compact design. The 202 has the largest capacity of any collector—540 tubes. Yet, it measures only 20 inches wide by 17 inches deep. And the FC 203 takes up only about a square foot of bench space.

Gilson fraction collectors can be used with any HPLC or LC system—ours or other manufacturers'. And three of the collectors can control peripherals such as pumps and chart recorders.

Choose from five different models:

FC 80 and FC100 micro-fractionators: Proven performers for simple time and drop collection. Many of these units have been in use for more than 15 years. Racks hold 80 or 100 tubes.

FC 203: Collects fractions by time or drop for simple analyses; peak and time windows enable more sophisticated applications. An affordable multi-mode unit capable of collecting up to 128 fractions.

201 and 202: With 15 operating modes, 15 rack options and capacities up to 540 tubes, no other fraction collector does more or handles more.

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