POSITIONS OPEN

ASSISTANT PROFESSOR

PLANT GROWTH AND DEVELOPMENT

Applications are solicited for a tenure-track plant physiologist position (11-month appointment; approximately 90% research, 10% instruction) to begin January 1992. Responsibilities: Developing, competitive, research program of crop physiology and research with emphasis on the use of tissue culture technology and membrane-related research. Qualifications: Ph. D. in plant physiology or a related field, postdoctoral experience, and evidence of successful teaching accomplishment at postdoctoral level. Salaries will be commensurate with qualifications and experience.

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SCIENCE, VOL. 252
POSITIONS OPEN

ASSISTANT PROFESSOR

The Department of Food Science and Nutrition, University of Minnesota, seeks a food scientist for a 12-month, tenure-track position as assistant professor. A Ph.D. in food science, biochemistry, microbiology, or related field is required. Prefer primary interest in dairy-foods research. Research, teaching, and public service responsibilities will depend on expertise and interests of the candidate, and should include evolving aspects of cheese systems. Advise undergraduate, M.S., and Ph.D. students. Candidate must have a commitment to research and will be expected to establish and maintain a strong externally funded research program. Postdoctoral or industry experience is preferred. By 1 November 1991, send curriculum vitae, publication list, statements of research interests, and names of at least three references to: E. A. Zottola, Chair, Search and Screening Committee, Department of Food Science and Nutrition, University of Minnesota, 1334 Eckles Avenue, St. Paul, MN 55108. Appointment available 1 March 1992. The University of Minnesota is an Equal Opportunity Educator and Employer.

ASSISTANT PROFESSOR
DEPARTMENT OF PHARMACY
UNIVERSITY OF CALIFORNIA
SAN FRANCISCO, CALIFORNIA (UCSF)

The Department of Pharmacy invites applications for a tenure-track assistant professor position. Applicants should have a Ph.D. or equivalent degree. Postdoctoral research experience is preferred. It is expected that the appointee will develop a strong and independent research program in one area of metabolomics of drug disposition (e.g., metabolism, transport, pharmacogenetics) or drug action. Teaching responsibilities will be both in the professional curriculum and in the graduate program and will likely be in the area of pharmacokinetics/pharmacodynamics and/or other areas of the appointee’s expertise. Send curriculum vitae, a summary of current research, a concise outline of future research plans, and the names of three individuals willing to provide letters of recommendation by 30 August 1991 to: Svein Gie, Ph.D., Professor of Pharmacy and Pharmaceutical Chemistry, Department of Pharmacy S-926, Box 0446, University of California, San Francisco, CA 94143-0446.

UCSF is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

ASSISTANT/ASSOCIATE PROFESSOR
CELL AND MOLECULAR BIOLOGY OF AGING

The Roy M. and Phyllis Gough Huffington Center on Aging is expanding its research programs and invites applications for faculty positions to complement its current programs. Candidates should have a Ph.D. or M.D., demonstrated ability to pursue independent research in cell and molecular biology and research interest in studies involving basic biological processes. Applicants for the associate professor position should have an established, nationally recognized research program in this area. The appointment will be tenure track in an appropriate basic science department at Baylor College of Medicine. Applicants should send curriculum vitae, statement of research interests, and names of three references by 30 August 1991 to: James R. Smith, Ph.D., Co-Director, Huffington Center on Aging, Baylor College of Medicine, One Baylor Plaza, M220, Houston, TX 77030-3498. Baylor College of Medicine is an Equal Opportunity/Affirmative Action Employer.

FACULTY TEACHING POSITIONS. The New York Chiropractic College is pleased to announce the relocation of its campus to the beautiful Finger Lakes Region in Seneca Falls, New York. The Division of Pre-Clinical Science invites applications for two full-time teaching positions, one in anatomy and one in physiology. Applicants should have a Ph.D. in the area of their expertise. Successful candidates will be expected to establish and maintain a strong externally funded research program. Please send resume and names of three references to: Barbara J. Davis, Ph.D., Director, Pre-Clinical Studies, New York Chiropractic College, P.O. Box 500, Seneca Falls, NY 13148. The New York Chiropractic College is an Equal Opportunity Educator and Employer.

Senior Scientist - PhD
Drug Disposition and Metabolism

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As the prescription pharmaceutical division of Procter & Gamble, Norwich Eaton is making significant progress in a very competitive industry. Innovation is the key to our success. Here you'll discover a vibrant, highly spirited environment where new ideas are appreciated and individual talent is acknowledged and rewarded.

To facilitate our on-going growth, we seek a Senior Scientist interested in the biological handling of new drugs and in related pharmacokinetics, especially in regard to dosage form performance, metabolism, and pharmacodynamics. The position requires a PhD in a pharmacologically related science with experience in a relevant field such as chemistry, metabolism, pharmacology, or toxicology. Primary responsibilities include support of drug discovery programs using innovative study designs and methods (cold and radiotracers) to address ADME and bioavailability issues, as well as the interpretation/presentation of data for INDs/NDAs, accompanied by expertise in interactions with allied areas such as clinical, drug safety, pharmacological, regulatory, etc. The applicant’s practical skills should be complemented by a high level of initiative and superior communication ability.

Bring us your capabilities, self-motivation and expertise. We’ll provide the camaraderie and benefits of a Fortune 500 organization coupled with the cultural benefits of a scenic up-state New York community, 200 miles northwest of New York City. For confidential consideration, please forward resume to: Mr. Terry M. Stowe, 17D, Norwich Eaton Pharmaceuticals, Inc., 17 Eaton Avenue, Norwich, NY 13815.

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PH.D. - SENIOR RESEARCH INVESTIGATORS
Cardiovascular Pharmacology

Bristol-Myers Squibb Pharmaceutical Research Institute is continuing to expand our efforts in the areas of cardiovascular, infectious, and metabolic diseases. This expansion has two exceptional opportunities for Ph.D.-Senior Research Investigators in Cardiovascular Pharmacology.

Primary responsibilities for the first position will include conducting studies of arterial and venous thrombosis for evaluation of new antithrombotics and anticoagulants and evaluating ex vivo antplatelet and anticoagulant activities. In addition, you will research and develop animal models of human disease involving thrombosis and related problems. A Ph.D. in Physiology or Pharmacology and 4 years of postdoctoral work with thrombosis/ischemia inflammation/vascular permeability/blood coagulation animal models are required. Dept. 223A.

The second position will involve supervising laboratory research in the areas of vascular smooth muscle function as it relates to cardiovascular diseases and in vitro test systems for the evaluation of vasodilator agents. Additional responsibilities include conducting independent research in vascular smooth muscle physiology/pharmacology/toxicology, participating in collaborative planning with scientists involved in cardiovascular research programs, and providing presentations on research results. A Ph.D. in Cardiovascular Pharmacology or Physiology and 4-6 years of experience after the degree are required. Dept. 223B.

We offer a competitive salary and benefits package. For consideration, please forward your resume (including Dept. #) to: Bristol-Myers Squibb Pharmaceutical Research Institute, P.O. Box 4000, Princeton, NJ 08543-4000. Equal Opportunity Employer, M/F/H/V.

Bristol-Myers Squibb Company
POSITIONS OPEN

The Department of Neurology, University of California, Irvine (UCI), has an opening for a Ph.D. in pharmacology, psychobiology or biology, or related field at the ASSISTANT PROFESSOR level. The candidate should join the movement disorders group and have experience in HPLC receptor binding and behavioral studies. Send curriculum vitae and names of three references to: Dr. Stanley Van Den Noort, Chairman, 375A Med Sci 2nd, UCI, Irvine, CA 92715. Refer to: Position #91-3. Affective Action/Equal Employment Opportunity Employer.

DEPARTMENT OF MICROBIOLOGY AND IMMUNOLOGY
LOYOLA UNIVERSITY CHICAGO

The Department of Microbiology and Immunology at Loyola University Chicago has an immediate opening for a tenure-track virology position at the level of ASSISTANT OR ASSOCIATE PROFESSOR. While the successful candidate is expected to obtain extramural funding, the salary is not dependent upon grant funds. Please submit curriculum vitae and the names and addresses of three persons from whom letters of reference can be solicited to:

Katherine L. Knight, Ph.D., Chair
Department of Microbiology and Immunology
Loyola University Medical Center
2160 South First Avenue
Maywood, IL 60153

Loyola University Chicago is an Equal Opportunity Educator/Employer.

NEUROPHARMACOLOGY, DRUG DEVELOPMENT

Full-time faculty position in Departments of Neurology and Radiology of Case Western Reserve University School of Medicine for Pharm.D. or Ph.D. with major interest in the use of PET in drug development. Individual should possess some basic qualifications to warrant the rank of ASSOCIATE PROFESSOR on the non tenure track. Interested candidates should write to: Robert B. Deyton, M.D., Professor of Neurology, Case Western Reserve University Hospitals of Cleveland, 2074 Abington Road, Cleveland, OH 44106. Case Western Reserve University is an Equal Opportunity/Affirmative Action Employer.

The St. Louis Veterans Administration Medical Center (VAMC) is seeking a CHIEF OF STAFF. The Chief of Staff is fully responsible for programs of patient care and for the educational and research activities of the clinical services. The successful candidate will have extensive experience in an academic medical center, a national reputation in research, and will qualify for professorial rank at St. Louis University and Washington University. Please send resume to: David Kipnis, M.D., Chairman, Chief of Staff Search Committee, c/o Director's Office, VAMC St. Louis, Missouri. Questions may be directed to John T. Carson at 314-894-6661. An Equal Opportunity Employer.

TROPICAL BOTANIST, CONSERVATION BIOLOGIST

The Department of Botany of the Field Museum of Natural History, to take full advantage of its outstanding herbarium of tropical American plants in an age of rapid deforestation and extinction, seeks an individual with broad knowledge of the Neotropical flora and a strong commitment to conservation-related work.

This person is expected to develop a conservation program involving more than one tropical country. Scope of the program: inventory; inventory, ecology, biogeography, systematics, critical taxa, or ethnobotany. The program should make good use of the museum collections, and must promote and disseminate results of direct work. It is important to conservation activity in tropical areas. At a junior level the person is expected to do more fieldwork; at a higher level more development work. It is a very commensurate with level of experience. Candidate should have a Ph.D. or the equivalent in experience, fluency in Spanish or Portuguese, and experience in dealing with computers. Women and minorities are particularly encouraged to apply.

Send curriculum vitae, statement of research interests and conservation related experiences, and names and telephone number of at least three references to: Robert Harley, Chief, The Field Museum of Natural History, 1400 South Lake Shore Drive, Chicago, IL 60605-2496. Equal Opportunity Employer, M/F.

POSITIONS OPEN

PIONEER

ALLELEX CORP TECHNOLOGIES

a division of Pioneer Hi-Bred Production Ltd., located in Iowa, is seeking an RFLP SCIENTIST for their organization.

The candidate should possess the following qualifications: Education: Ph.D. in plant breeding or related science. Experience: postdoctoral experience in managing plant RFLP programs in an industrial research laboratory or equivalent preferred; 1 to 3 years essential. The candidate should have had some experience in managing people within the industrial laboratory setting. Individual must have strong scientific knowledge in RFLP area particularly from the breeding side. Good organizational, communication, statistical, and computer data skills are also required.

Please submit resumes only by 5 July 1991 to: Rose Nelms, C.H.R.P.

Pioneer Hi-Bred Limited
P.O. Box 750
Chatham, Ontario N7M 5L1, Canada

TEXAS:
The University of Texas Health Science Center at San Antonio (UTHSCA) School of Dentistry, a progresive institution with strong emphasis on clinical care and clinical and basic research, seeks an individual for the position of CHAIR, DEPARTMENT OF ORAL PATHOLOGY. The department has a strong commitment to clinical dentistry and basic research. This individual should have demonstrated a significant commitment to clinical dentistry, basic/clinical research, and progressive concepts of teaching at the undergraduate and postdoctoral levels. The position is available at the time of appointment.

This individual should have demonstrated a significant commitment to clinical dentistry, basic/clinical research, and progressive concepts of teaching at the undergraduate and postdoctoral levels. The position is available at the time of appointment.

Send curriculum vitae and letter of intent by 15 August 1991 to: Stephen M. Kipnis, Ph.D., Chairman, Department of Oral Pathology, UTHSCA.

FISHERY POPULATION DYNAMICST

BIOSTATISTICIAN

CHIEF, Mid-Atlantic Offshore Fishery Resources Investigation. The Northeast Fisheries Center of the National Marine Fisheries Service seeks a fisheries population biostatistician for its Woods Hole, Massachusetts, laboratory. Duties of the position are to conduct and supervise research on factors influencing the dynamics of fishery populations off the Northeast United States. The position requires substantial training and experience in quantitative population dynamics. Closing date for application is 30 June 1991. For application packet, contact: Ma. Kathryn M Arthur, Eastern Administrative Support Center, NOAA, Personnel Division, Room 411, 53 Montana Avenue, Norfolk, VA 23510. Telephone: 804-441-6880. The Department of Commerce is an Equal Opportunity Employer.

DIRECTOR

OF LABORATORY ANIMAL MEDICINE

ACLM Board-eligible veterinarian sought to provide veterinary care and management of ALACM-accredited research animal facility, plan future development of facility to support expanding research effort, direct master's and doctoral level course degree program, and facilitate interactions between research animal facility and research faculty. Opportunity for extensive collaboration with faculty in animal research projects. Substantial resources, competitive salary, excellent fringe benefits, and academic appointment available. Energetic, motivated candidates who have a Ph.D. or M.D. and appropriate experience. Send curriculum vitae and three references to: Dr. Gary Aston-Jones, Yale University Medical School, 333 Cedar Street, New Haven, CT 06510. Salary level.

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CABC MARKET MANAGER

In this multifaceted position, you'll act as a leader and visionary in the use of emerging parallel processing technology in Computer Aided Chemistry and Biotechnology. Specifically, you'll develop and execute strategies for the continued growth of the CABC marketplace.

Required experience includes:

- Managing development relationships with software partners, overseeing marketing programs (university relations, advertising, trade shows, technical papers, brochures/newsletters), developing end user accounts through account visits and professional relationships, and identifying product requirements and communications for Product Development.

We offer an excellent salary and benefits package. Please send your resume to: Silicon Graphics, Inc., Product Line Development, Box #T-374, P.O. Box 7313, Mountain View, CA 94039-7313. Equal Opportunity Employer.

SILICON GRAPHICS

CURATORIAL INTERNSHIP
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SMITHSONIAN INSTITUTION

Provides experience in the daily management of an exhibit collection of exotic animals (mammals, birds, amphibians, invertebrates) and experience in zoo administration, education, and conservation. Provides opportunity to conduct original research in a zoo setting. Must have a background in life sciences, research or employment experience in zoology, environmental biology, or conservation, and a career interest in conservation, zoo administration, or conservation education.

Not to exceed 2 years, beginning 1 December 1991, at $21,000 per year.


FACULTY POSITION
MICROBIOLOGY AND IMMUNOLOGY

Applications are invited for a tenure-track ASSISTANT PROFESSOR position in Microbiology/Immunology to begin on or about September 1, 1991. The candidate should have a Ph.D. or M.D. with proven ability or high potential for an independently funded, productive research program. Send curriculum vitae, bibliography, and statement of research and teaching interests to: John M. Knight, Ph.D., Chairman, Department of Microbiology/Immunology #A-68, Albany Medical College, 47 New Scotland Avenue, Albany, NY 12208.

The Albany Medical Center is an Equal Opportunity/Affirmative Action Employer.

INSTRUCTOR

Department of Neurological Surgery, University of Virginia Health Sciences Center. Position available to direct an established neuroscience research laboratory. The position will be expected to have a high level of expertise in veterinary medicine and animal physiology. Qualified individuals must have a masters or higher degree and significant experience in research. Send curriculum vitae and animal references to: Dr. Kevin S. Lee, Department of Neurological Surgery, Box 420, University of Virginia Health Sciences Center, Charlottesville, VA 22908.

The University of Virginia is an Affirmative Action/Equal Opportunity Employer.
Career Opportunities

Oncogene Science is expanding its basic drug discovery and research product divisions in the application of oncogene technology to innovative product development. We currently have postdoctoral and staff scientist positions available in the following general areas:

**Molecular Biology**
- Gene Cloning
- Eukaryotic Gene Expression
- Transcriptional Regulation

**Signal Transduction**
- Pi Turnover
- Protein Kinases
- Calcium Mobilization

**Production/Manufacturing**
- DNA Probe Products
- Antibody Products
- Immunoassays

**Protein Biochemistry**
- Protein Purification
- Protein Characterization

**Immunology/Imunochemistry**
- Hematopoietic Factors
- Immunoassay Design
- Hybridoma Development

**Cell Biology**
- In Vitro Drug Evaluation
- Atherosclerosis

The company also has opportunities in its patent development program for Ph.D.s with a minimum of three (3) years' postdoctoral experience in molecular biology/drug discovery and/or research and diagnostic product development.

Oncogene Science is strategically located on Long Island with ready access to major academic institutions in the New York City metropolitan area.

Oncogene Science offers an excellent compensation and benefits package. Qualified candidates should send their resumes, including a list of publications and references to: **Oncogene Science, Inc., Human Resources Department, 350 Community Drive, Manhasset, New York 11030; Attn: CO. An Equal Opportunity Employer.**
**Principal NMR Scientist**

We have a challenging opening for a broad-based Ph.D. level NMR Scientist with 5+ years experience to start up and lead our expanding NMR Center. The successful candidate must be able to work with all of our discovery and development staff to recommend solutions to solve pharmaceutical problems. You will be the key specialist on a team of NMR scientists working with, designing, and implementing leading-edge technology to elucidate molecular geometry. You will also work with analytical chemists and synthetic chemists to design and execute effective and efficient structure proofs. The selection and utilization of artificial intelligence to aid in structure determination will be part of your responsibilities.

As a peer team player with biologists and chemists, you will design and execute cooperative experiments that each of you has an essential part to play in. You will play an integral role in moving us ahead of our competitors in areas key to the pharmaceutical industry by keeping up-to-date in NMR science.

You will discover that we offer a competitive salary and benefits package along with outstanding career opportunities. To apply, please send your resume to: GV77-91, Sterling Research Group, 9 Great Valley Parkway, Malvern, PA 19355. An Equal Opportunity Employer M/F/D/V.

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Our Research Center is situated in the north of Lausanne near the Lake of Geneva, Switzerland. We are looking for a **CHEMIST** for our Food Lipids team. This research field will include studies on the processing and the application of oils and fats for foods, the screening of new oil sources and the assessment of physico-chemical behaviour of lipids. Candidate should hold a Ph.D. in chemistry, food technology or food chemistry. 2 to 3 years experience in the oils and fats industry or equivalent would be desirable. Knowledge of English and French are of advantage. Please send your application with curriculum vitae and references to Mr. Edgardo Brambilla, Personnel Services, Nestlé Research Center, P.O. Box 44, CH- 1000 LAUSANNE 26, Switzerland.

**FACULTY POSITIONS IN BIOMACROMOLECULAR STRUCTURE**

McMaster University is seeking highly qualified scientists to enhance its developing strength in the study of the structure and function of biologically relevant macromolecules. Up to three individuals will be appointed to tenure stream positions in the areas of (i) Protein crystallography, (ii) Enzymology and (iii) Protein engineering and folding as members of a Development group supported by the Medical Research Council of Canada. The appointees are expected to develop outstanding, independent research programs and promote cooperative scientific interactions as well as to participate in undergraduate and graduate teaching. Appointments will be in the Department of Biochemistry, with cross appointments to other departments as appropriate. McMaster has currently in place, state of the art x-ray diffractometer, electron microscope, NMR and molecular modelling facilities and a number of scientists working in the area of biomacromolecular structure and function. In addition to structural biochemistry, other current strengths are in gene expression, protein targeting, molecular virology, development and oncogenesis and inflammation.

Interested individuals should submit their curriculum vitae, brief statement of current research and future plans and the names of three referees to: Dr. H. P. Ghosh, Chair, Department of Biochemistry, McMaster University, 1200 Main Street West, Hamilton, Ontario L8N 3G5. In accordance with Canadian immigration policy, this advertisement is directed to Canadian citizens or landed immigrants. Appointments subject to MRC approval. Fax 416-522-9033.

**MOLECULAR BIOLOGIST**

**INTERESTED IN GENE EXPRESSION IN MAMMALIAN CELLS**

The Surgery Branch of the National Cancer Institute has an immediate opening for a Senior Investigator to join its studies of the gene therapy of human cancer. This position involves a responsibility for studies of the introduction of genes into human lymphocytes and tumor cells using retroviral mediated gene transduction. The position involves responsibility for conducting independent research programs in this area and the supervision of junior scientists. Prior postdoctoral experience in molecular biology is required. Interested candidates should send a Curriculum Vitae and two letters of reference. For further information and application procedures, please contact:

Steven A. Rosenberg, M.D., Ph.D.
Chief, Surgery Branch
National Cancer Institute
National Institutes of Health
Public Health Service
Building 10, Room 2B42
9000 Rockville Pike
Bethesda, Maryland 20892
(301) 496-4164

NIH is an Equal Opportunity Employer

**DIRECTOR, CENTER FOR INFECTIOUS DISEASES CENTERS FOR DISEASE CONTROL**

CDC invites applications for the position of Director, Center for Infectious Diseases, Atlanta, Georgia.

This Senior Executive Service position is in the career civil service with an annual salary range of $87,000–$104,600. Physicians may also be eligible for a comparability allowance of up to $20,000 per year.

The Director is responsible for planning and coordinating a national program for the prevention and control of acute and chronic infectious diseases. He/she serves as a principal resource for the Public Health Service for public health aspects of all infectious diseases.

Qualifications preferred include a doctoral degree (M.D., Ph.D., or equivalent), broad knowledge of public health programs related to the prevention and control of infectious diseases, and proven ability to provide administrative and scientific leadership for a multidisciplinary program employing over 1200 professional, technical, and administrative personnel.

Further information about the position may be obtained from Walter R. Dowdle, Ph.D., Search Committee Chair, Building 1, Room 2000, Centers for Disease Control, 1600 Clifton Road, Atlanta, GA 30333. Interested candidates may send their curriculum vitae and names of three professional references by July 31, 1991, to Nancy Peterson, Personnel Management Office, Centers for Disease Control, 1600 Clifton Road, Atlanta, GA 30333. Tel. (404) 639-1521.

CDC is an Equal Opportunity Employer and provides a smoke-free work environment. This is a drug testing designated position.
Career Opportunities in Japan

The Corporate Research Division of the Procter & Gamble Company has career opportunities for Japanese scientists to work on research programs in the area of bone and connective tissue. Candidates should have a Ph.D. or postdoctoral training in molecular biology, cell biology, protein chemistry, or a related discipline. Applicants must be fluent in Japanese and must also have a good practical understanding of the English language. They will begin their careers in Cincinnati, Ohio at our Miami Valley Laboratories prior to transfer to Japan, where we are building a new technical center on Rokko Island, Kobe. Transfer to this center will coincide with its completion, now scheduled for early 1993. For non-Japanese citizens, employment is contingent upon being able to obtain a work visa from the Japanese government.

Procter & Gamble is a multinational, technically based company with $21.4 billion in worldwide sales. We are engaged in the research, development, manufacture, and sale of consumer products in the health, beauty care, pharmaceutical, paper, laundry, food, and beverage areas. Last year our R&D budget was $693 million.

If you meet these criteria and would like to explore career opportunities in a solid, growing international company, send your resume and publication list to:

Dr. T. J. Logan, Manager
Ph.D. Recruiting, Box DLS2
Japanese Research Positions
THE PROCTER & GAMBLE COMPANY
Miami Valley Laboratories
P.O. Box 398707
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RESEARCH MANAGER, MARINE BIOLOGY

The Office of Naval Research is seeking a highly qualified individual to plan and manage a contract research program in marine environmental biology. The sponsored research is conducted principally at universities and private laboratories, with research performed by leading scientists in the field. This is a Civil Service position at the GM-13, 14 or 15 level ($44,348 - $80,138), depending on qualifications.

The individual selected will establish goals for and conceive, organize and direct research and development programs in new areas of marine environmental biology with an emphasis on the biochemistry and molecular biology of marine organisms and the regulatory role of environmental factors. The incumbent will identify new research opportunities, evaluate and select research proposals for funding, manage funding resources, communicate ONR’s interest to the scientific community and represent the program within the Navy and DoD. This position provides the challenge and opportunity to have a creative and significant impact on the direction and quality of research conducted at the national level. Additionally, the opportunity exists to establish or maintain an individual research program at an academic institution or government laboratory.

Applicants must have a Ph.D. or equivalent training in marine biology with emphasis on molecular biology or molecular biology with emphasis on marine biology, and at least one year of professional experience OR an equivalent combination of education and experience. To be qualifying, this experience must have been at a level of difficulty and responsibility equivalent to that of the next lower grade level in the Federal Service. Demonstrated research experience is strongly preferred.

Interested persons should send a resume, list of publications and a Standard Form 171, Application for Federal Employment (available at Federal Job Information Centers or from the following address), to: OFFICE OF THE CHIEF OF NAVAL RESEARCH, Civilian Personnel Division, OCNR Code 01242, Attn: Announcement #91-28 (S), 800 North Quincy Street, Arlington, VA 22217-5000.

Applications will be accepted through 16 September 1991 and must be received by that date. Applicants are requested to complete the appropriate supplemental forms. For further information and supplemental forms, please call (703) 696-4705.

U.S. Citizenship Required

An Equal Opportunity Employer
MANAGERS/DEPARTMENT HEADS

California Biotechnology Inc., a leading biotechnology company engaged in developing novel human therapeutics, has outstanding opportunities in the following areas:

Development

Pharmacology and Toxicology

Qualified candidates must have a Ph.D. in Pharmacology, Toxicology, or Physiology and at least 5 years of experience in both project and staff management. Candidates will also have expertise in the evaluation and design of pharmacology and toxicology studies, be able to assess preclinical programs for completeness, coordinate and direct consultants and contract laboratory work, familiarity with FDA requirements for NDA or PLA submissions is required and experience with cardiovascular and renal in vivo studies is preferred. Additional responsibilities will include developing GLP compliance in our AALAC facility, preparing annual USDA, OPPR and AALAC reports, and IACUC participation. This position reports to the Director of Preclinical Development. You will manage a staff of 5-6 research associates and animal care technicians. Excellent team, communication, and written skills are required.

Research Pharmacology

Qualified candidates must have a Ph.D. in Pharmacology or Physiology and 5 years of experience. At least 2 years of management experience, preferably in industry is also required. Candidates should have expertise in a wide variety of in vivo models with specific experience in cardiovascular, neurobiological and/or endocrine physiology. Experience and participation in research programs with NIH and AALAC requirements is preferred. This position reports to the Director of Preclinical Development. You will manage and direct a staff of 3 Ph.D.s and 3 research associates. This is a hands-on position which involves developing creative scientific approaches including in vivo models, surgical procedures and statistical needs for testing potential human therapeutics. Interpersonal, team skills and excellent organization skills are required.

We offer a stimulating work environment and an outstanding compensation/benefit package. To apply, please send or fax your resume to: CALIFORNIA BIO TECHNOLOGY INC., Human Resources Dept., C/K/AP, 2450 Bayshore Parkway, Mountain View, CA 94043. FAX: (415) 986-2848. An Equal Opportunity Employer.

Molecular Neurobiology

POSTDOCTORAL RESEARCH POSITION. At Harvard Medical School, Mailman Research Center, available immediately for a Ph.D. scientist with background in neuroscience and/or molecular biology, to work on the molecular neurobiology of innervation and synapse formation. The research is based on new techniques recently developed in the lab. Possible projects: 1) molecular characterization of the components of developing nerve terminals; 2) cloning of a new component; 3) development of a new assay for measuring the activity of the component. Send curriculum vitae and the names of three references to: Dr. S. Burzstajn, McLean Hospital, Mailman Research Center, 115 Mill Street, Belmont, MA 02178. An Equal Opportunity Employer.

POSTDOCTORAL POSITION. At Harvard Medical School, Mailman Research Center, available immediately for a Ph.D. scientist with background in neuroscience and/or molecular biology, to work on the molecular neurobiology of innervation and synapse formation. The research is based on new techniques recently developed in the lab. Possible projects: 1) molecular characterization of the components of developing nerve terminals; 2) cloning of a new component; 3) development of a new assay for measuring the activity of the component. Send curriculum vitae and the names of three references to: Dr. S. Burzstajn, McLean Hospital, Mailman Research Center, 115 Mill Street, Belmont, MA 02178. An Equal Opportunity Employer.

BIOTECHNOLOGIST. Virology Carriage Research Unit, National Animal Disease Center, Ames, Iowa. ARES is seeking a BIOTECHNOLOGIST to develop tests for detection of virus contamination in meat and meat products. Candidate must have knowledge of basic molecular biology techniques and the skill and ability to use those techniques. Participate in meetings, workshops, conferences and activities related to the field of virology. Must have experience in the field. Send curriculum vitae and the names of three references to: Dr. S. Burzstajn, McLean Hospital, Mailman Research Center, 115 Mill Street, Belmont, MA 02178. An Equal Opportunity Employer.
Push the boundaries of biotechnology.

At Genentech, our commitment to R&D starts with finding the top scientific talent and continues with the annual return of 40% of revenues back into R&D — $670 million over the last decade — and just keeps building. In fact, we’ve got a new R&D facility scheduled to open in 1992. If you’d like to share our commitment to good science, join us in one of the following opportunities.

**Research Assistant/Associate**

This is an exceptional opportunity for a Research Assistant/Associate in our Cell Analysis lab within the Department of Cell Biology. You will be involved in the operation of various cell sorters, image analyzers and additional analytical instrumentation in support of new product development throughout R&D. This requires at least five years of experience utilizing analytical cytology including extensive experience in cell biology techniques. The ideal candidate will have strong communication and computer skills. Dept. YSGR.

**Research Assistant/Pathology**

The scope of this position will be to investigate pathogenic mechanisms of toxicological effects of recombinant molecules and methods to evaluate efficacy of these products in animal models. Requires a BS/MS in a Biological Science and at least 6 years experience in the field. Preference will be given to an individual with broad experience in morphologic procedures such as electron microscopy, morphometry, immunohistochemical staining and in situ hybridization. Dept. NCTF.

**Research Assistant/Associate**

You will generate and characterize novel monoclonal antibodies in our Hybridoma group. This involves interacting with R&D groups to produce and characterize monoclonal antibodies to novel recombinant therapeutic proteins. Requires a BS/MS and two years of relevant work experience in at least one of the areas of mammalian cell culture, assay development and hybridoma technology. Dept. NSBF.

**Research Associate**

As a member of our Pharmaceutical R&D team, you will conduct studies to characterize therapeutic proteins, assess their compatibility with pharmaceutical excipients and develop stable formulations. This requires a BS/MS in Physical Chemistry, Biochemistry or Analytical Chemistry and at least a year of experience with proteins and analytical biochemistry techniques. Dept. LSRA.

**Fermentation Engineer**

You will apply fundamental engineering concepts to design, optimize and test equipment for unit operations such as cell/liquid separations, cell inactivation, fermentor design, sterile operation of fermentation equipment, sterile feed control systems and computer controlled fermentation operations. Additionally, you will serve as a resource and provide hands-on efforts during the plant design, scale-up and troubleshooting processes. An MS/PhD in Chemical or Mechanical Engineering and at least 7 years of related experience are required. Dept. LSFE.

**Pharmaceutical Process Development Engineer**

You will plan, organize and conduct projects in the process research and development of microencapsulation, liposome fabrication, spray coating and other pharmaceutical techniques for recombinant protein products. A BS/MS with at least five years' pharmaceutical industry experience or a PhD in Chemical Engineering, Pharmaceutical Technology or Bioengineering are required. Dept. LSFE.

**Senior QC Specialist**

We are seeking a Senior QC Specialist for our QC Technical/Chromatographic Services department. You will assume responsibility for the development, qualification and validation of analytical methods for use in Genentech's QC laboratory. Additionally, you will investigate and resolve analytical problems, transfer and refine new assays and interface with various departments companywide.

The qualified candidate will possess in-depth knowledge of HPLC, spectrophotometry and protein purification techniques. A BS/MS in Analytical Chemistry or Biochemistry and at least 5 years' pharmaceutical experience are required. A PhD with a year of related work experience is preferred. Dept. NCPR.

Genentech offers an extensive benefits package which includes fully paid dental/medical/vision coverage for you and your dependents, child care facilities and free health club membership. For immediate consideration, please send your resume, indicating Dept. of Interest, to Genentech, Inc., Human Resources, 460 Point San Bruno Blvd., South San Francisco, CA 94080. We promote and actively support affirmative action and equal employment opportunity. Women and minorities are encouraged to apply.

Genentech, Inc.
POSTDOCTORAL POSITIONS: MOLECULAR AND CELLULAR BIOLOGY. Position available immediately to join a research team studying the regulation of growth and survival of human pathogenic organisms. Research involves the use of molecular biology techniques to define the molecular basis of virulence. Excellent opportunity for individuals interested in research at the interface of microbiology and molecular biology. Position includes a competitive salary, comprehensive benefits package, and opportunities for travel. Please send curriculum vitae and names of three references to: Department of Microbiology and Immunology, Box 0620, Ann Arbor, MI 48109.

POSTDOCTORAL POSITIONS: IMMUNOLOGY. Several positions available immediately to study the molecular basis of immune regulation and development. Research involves the use of molecular biology techniques to define the molecular basis of immune response and regulation. Excellent opportunity for individuals interested in research at the interface of microbiology and molecular biology. Position includes a competitive salary, comprehensive benefits package, and opportunities for travel. Please send curriculum vitae and names of three references to: Department of Microbiology and Immunology, Box 0620, Ann Arbor, MI 48109.

POSTDOCTORAL POSITION: MOLECULAR AND CELLULAR BIOLOGY. Position available immediately to join a research team studying the regulation of growth and survival of human pathogenic organisms. Research involves the use of molecular biology techniques to define the molecular basis of virulence. Excellent opportunity for individuals interested in research at the interface of microbiology and molecular biology. Position includes a competitive salary, comprehensive benefits package, and opportunities for travel. Please send curriculum vitae and names of three references to: Department of Microbiology and Immunology, Box 0620, Ann Arbor, MI 48109.

POSTDOCTORAL POSITION: MOLECULAR AND CELLULAR BIOLOGY. Position available immediately to join a research team studying the regulation of growth and survival of human pathogenic organisms. Research involves the use of molecular biology techniques to define the molecular basis of virulence. Excellent opportunity for individuals interested in research at the interface of microbiology and molecular biology. Position includes a competitive salary, comprehensive benefits package, and opportunities for travel. Please send curriculum vitae and names of three references to: Department of Microbiology and Immunology, Box 0620, Ann Arbor, MI 48109.
Postdoctoral Position in Signal Transduction

The PARKE-DAVIS Pharmaceutical Research Division of Warner-Lambert Company has a postdoctoral position available immediately for an independent and highly motivated scientist with experience in molecular biology to study signal transduction by the epidermal growth factor receptor and cell cycle dependent regulation of the activities of protein kinases and phosphatases.

Ongoing work includes: 1) the role of phosphorylation of the EGF receptor in regulation of receptor function; 2) characterization of effector proteins involved in intracellular signalling by growth factor receptors; 3) the role of serine/threonine specific protein kinases in intracellular signalling; 4) involvement of EGF-dependent proteolytic processing of the EGF receptor in receptor function.

This position represents an opportunity to participate in projects with potential applicability to other problems in molecular biology, cell biology and biochemistry. Candidates should be recent Ph.D. graduates with a strong background in molecular biology.

Compensation includes a competitive salary, an attractive benefits package and relocation assistance. Send CV and list of references to PARKE-DAVIS, Human Resources, Box JDM-0048, 2800 Plymouth Road, Ann Arbor, MI 48105. "Smoke-Free Work Environment"

"Equal Opportunity in Action"

PARKER-DAVIS
A DIVISION OF WARNER LAMBERT

DEPARTMENT OF TOXICOLOGY

Postdoctoral Research Associate Molecular Biologist/Biochemist

Hoffmann-La Roche, an established leader in the pharmaceutical industry, has an excellent opportunity in our Dermatological Division, which has ongoing programs related to skin photoaging, acne, psoriasis and hair growth.

You will have the opportunity to apply methods of recombinant DNA technology to problems involving the action of retinoids on the repair of photodamaged skin. Qualifications include a PhD in Biochemistry, Cell Biology or Pharmacology. Demonstrated expertise in molecular biological techniques along with a working knowledge of the biochemistry and physiology of skin desirable.

Roche offers a research environment encouraging scientific growth. Interested individuals should send a curriculum vitae indicating past, current and future research interests to: Mrs. Jane Jusinski, Roche Dermatologics, Hoffmann-La Roche Inc., Nutley, New Jersey 07110. We are an equal opportunity employer.
BIOTECH, INC.

METABOLIC PATHWAY ENGINEERING

Coors BioTech, Inc., a Colorado biotechnology company with interests in vitamins and other specialty chemicals for the food and feed ingredients market, has immediate openings for qualified scientists in our Fort Collins Research facilities. We are seeking innovative, highly motivated scientists to work as key members of multi-disciplinary teams in an entrepreneurial environment.

**Microbial Physiologist**

This position requires a Ph.D. in Microbial Physiology and 1-2 years postdoctoral experience. Candidates must have demonstrated expertise in studying the regulation of metabolic pathways, and a strong background in biochemistry. The successful individual will work in our Fermentation Microbiology group with responsibilities for developing fermentation processes in collaboration with other scientists.

**Microbial Geneticists**

We have an opening in our Molecular Genetics groups for a Ph.D. with 1-2 years postdoctoral experience and demonstrated expertise in microbial genetics and strain selection strategies, especially with myceliated bacteria or fungal systems. Experience with genetic engineering of metabolic pathways is desirable for this position.

We also encourage scientists with BS/MS degrees and 2-4 years relevant experience in applied laboratories to apply for a Research Associate opening.

Our research facilities are located in Fort Collins, an attractive university community convenient to the outstanding recreational opportunities available in Colorado. Coors BioTech offers a competitive compensation and benefits package, as well as the opportunity to live in the affordable Rocky Mountain region.

Please send your resume in confidence to:

Coors BioTech, Inc.
Personnel #LA91-A
6204 South College Avenue
Fort Collins, Colorado 80525

Equal Opportunity Employer

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**Postdoctoral Research Fellow: Transcriptional Regulation in the Nervous System**

Highly motivated postdoctoral researchers sought to study the regulation of gene expression in the developing nervous system of mouse. Specific areas of interest include:

(i) Characterization of the DNA binding and transcriptional activities of neuronal-specific transcriptional regulatory proteins.

(ii) Identification and characterization of the regulatory elements that control the expression of neuronal target genes.

The CABM is a newly established molecular biology research institute with state-of-the-art facilities available. Interested candidates should send CV and arrange to have three letters of reference sent to:

Dr. Cory Abate
CABM
679 Hoes Lane
Piscataway, NJ 08854

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**SENIOR BIOCHEMICAL PHARMACOLOGIST**

The Laboratory of Clinical Studies; National Institute on Alcohol Abuse and Alcoholism; Public Health Service; Alcohol, Drug Abuse, and Mental Health Administration, invites applications for one biochemical pharmacologist to carry out studies on the pathophysiological actions of alcohol on transmembrane flux and receptor and genomic components of neuronal signal transduction, especially factors involved in the trans-regulation of gene transcription. The position is offered, depending on the experience of the applicant, at a salary range of $32,000 to $45,234. Applicants must have a Ph.D. or M.D. Submit a curriculum vitae and three letters of recommendation to:

Mr. Michael Yuter
Personnel Management Branch
NIAAA, ADAMHA
Building 31, Room 1B54
9000 Rockville Pike
Bethesda, MD 20892

The position is available now and the deadline for receipt of materials is July 12, 1991.

ADAMHA is an Equal Opportunity Employer
the Lake of Geneva, Switzerland.

We are offering a

POSTDOCTORAL FELLOWSHIP IN XENOBIOTICS

For a period of two years.

The aim of this project is to develop chemical methods of assessing DNA damage by food contaminants for human risk evaluation. Responsibilities require elucidation of routes of metabolism of contaminants responsible for toxicity, chemical syntheses and analytical methods for measuring DNA adducts. Application of these methods to in vitro cell culture systems and in vivo for monitoring DNA damage.

The successful candidate holds a Ph.D in toxicology or related science and a strong background in organic and analytical chemistry, for developing methods of human biomonitoring and risk evaluation. Knowledge of xenobiotic metabolism and experience with methods of measuring DNA damage, such as 32P postlabelling, are also desirable.

Please send your application with curriculum vitae and three names for reference purposes to Mr. Edgardo Brambilla, Personnel Services, Nestlé Research Center, P.O. Box 44, CH-1000 LAUSANNE 26, Switzerland.

GENSIA PHARMACEUTICALS, INC. is discovering and developing drugs for the treatment and diagnosis of cardiovascular and CNS diseases. Continued growth has created openings in cardiovascular research for scientific investigators and research associates.

Candidates should have an MS or PhD in physiology, pharmacology or related field with skills or training in:

- cardiovascular pharmacology
- isolated organ and tissue pharmacology
- models of cardiovascular disease

Previous industrial experience is preferred, but not essential.

We offer a competitive salary and benefits package including incentive stock options. For consideration, please send a resume with a cover letter to Human Resources Dept., (SL) Gensia Pharmaceuticals, Inc., 11025 Roselle St., San Diego, CA 92121-1204.

SCIENTISTS AND POSTDOCTORAL FELLOWS IN NEUROBIOLOGY

REGENERON PHARMACEUTICALS is making rapid progress in the basic understanding of neuronal growth factors and how these proteins can treat degenerative and traumatic neurological disorders. Recent discoveries have increased the need of the Neurobiology Department for scientists with interests and skills in the areas of receptor pharmacology, neurochemistry, and animal behavior.

SCIENTIST positions require a Ph. D. and extensive experience and publications in either of these areas. Experience with animal models of central or peripheral nerve disease, traumatic injury, and neuronal plasticity is desired.

POSTDOCTORAL positions require skills and interests in at least one of the above areas and a strong desire to conduct research on recently discovered neurotrophic factors.

REGENERON's modern facility is located on an expansive wooded campus in Westchester County, 20 miles north of Manhattan. The highly collaborative and supportive Regeneron community offers considerable growth potential at the scientist and post-doctoral levels. Please send your resume indicating the relevant position and your immediate career goals to:

Ms. Carol Deaken, Bin IV, REGENERON PHARMACEUTICALS, INC. 777 Old Saw Mill River Road Tarrytown, NY 10591-6707 Equal opportunity employer.

REGENERON Pharmaceuticals, Inc.
Alkermes, Inc. is a neuropharmaceutical company developing products for the treatment of diseases of the central nervous system. We are presently searching for an individual to fill the following position:

PHARMACOKINETICIST

Your responsibilities will entail managing preclinical and clinical pharmacokinetic studies, including protocol design, interpretation of results, and preparation of reports for regulatory (FDA) submissions. In addition, you will participate in the design and evaluation of animal efficacy studies. You should have a Ph.D. in pharmacokinetics or a related discipline, and at least 2 to 4 years' experience with pharmacokinetics in a pharmaceutical or biotechnology industrial setting. Good communication skills, both verbal and written, are essential. This position offers an excellent salary, stock option, and benefits package in a stimulating environment with an opportunity to make a major contribution. For consideration, please send your CV, including references in confidence to: Dr. Carol Gliott, Director of Product Development, Alkermes, Inc., 26 Landsdowne Street, Cambridge, MA 02139-4234. An Equal Opportunity Employer.

Announcement and call for abstracts for

International Conference
on Advances in AIDS Vaccine Development:

Fourth Annual Meeting
of the
National Cooperative
Vaccine Development
Groups for AIDS

October 15-19, 1991
Marriott's Marco Island Resort
Marco Island, Florida

Sponsored by:

Vaccine R&D Branch
Basic R&D Program
DAIDS, NIAID, NIH

To receive conference registration and abstract submission information, please call or write to:

Terry G. Gillaway
c/o Technical Resources, Inc.
3902 Tower Oaks Blvd.
Rockville, MD 20852
(301) 770-3153
FAX (301) 468-2245

Deadline for abstract submission and conference registration is August 15, 1991

Post Doctoral Research at The Wistar Institute

The Wistar Institute, an independent research organization located on the campus of the University of Pennsylvania, is currently seeking post doctoral applicants interested in cancer-oriented research. Wistar has maintained a reputation for pioneering work and groundbreaking accomplishments since its founding nearly 100 years ago. Fellows can anticipate a stimulating and challenging experience in the tradition of strong interdisciplinary collaboration within an environment utilizing state-of-the-art biotechnology. Wistar's general areas of research interest include: Molecular Oncology, Molecular Virology, Cell & Developmental Biology, Tumor Biology & Immunology, Cell & Molecular Immunology and Structural Biology. Interested applicants are requested to send a Curriculum Vitae and the names of three references to: Coordinator of Research Training, THE WISTAR INSTITUTE, 36th & Spruce Streets, Philadelphia, PA 19104.

The Wistar Institute

Equal Opportunity Employer

SENIOR
NEUROPHARMACOLOGIST

The Laboratory of Clinical Studies; National Institute on Alcohol Abuse and Alcoholism; Public Health Service; Alcohol, Drug Abuse, and Mental Health Administration, invites applications for a senior neuropharmacologist to study the effects of ethanol on brain neurotransmitter systems, in addition to neurochemical modulation of glucose metabolism. Demonstrated expertise with microdialysis and behavioral pharmacology is essential, with related publications in refereed journals. Additional skills required include: HPLC, receptor binding and radioenzymatic assays, chronic animal and venous cannulations, and rodent electroencephalographic recording. Previous experience in alcohol and psychotropic drug research is strongly preferred. The position is offered, depending on the experience of the applicant, at a salary range of $32,000 to $45,234. Applicants must have a Ph.D./M.D. or equivalent. Submit a curriculum vitae and three letters of recommendation to:

Mr. Michael Yuter
Personnel Management Branch
NIAAA, ADAMHA
Building 31, Room 1BS4
9000 Rockville Pike
Bethesda, MD 20892

The position is available now and the deadline for receipt of materials is July 12, 1991. ADAMHA is an Equal Opportunity Employer.
The track record of original research and discoveries by the scientists at the Janssen Research Foundation is impressive by any standard. Our efforts have resulted in more than 82,000 original molecules and an array of new pharmaceutical products that include IMODIUM®, NIZORAL®, SUFENTANIL, HISMANAL®, ALFENDA® and ERGAMISOL®. Many more are in the pipeline, and it’s that penchant for innovation that has created an outstanding opportunity for Clinical Research Associates.

Working in small teams, you’ll be involved in ongoing drug studies. Current areas of interest include anesthesiology, gastroenterology, psychotherapy, mycology, parasitology, cardiology, oncology, allergy and immunology. And Medical Writers, Biostatisticians, and professionals in Regulatory Affairs and Professional Services will find exciting opportunities at the Janssen Research Foundation as well.

For the clinical professional, few organizations can match the advantages at the Janssen Research Foundation. Research and development is the mainstay of all we do, and as a member of the Johnson & Johnson Family of Companies, we offer a progressive environment, opportunities for advancement, competitive salary and superlative benefits, including our on-site wellness center.

We are planning to move to our state-of-the-art facilities currently under construction in scenic Washington Crossing, NJ in early 1992. If you’d like to bring your innovative ideas to an organization that will appreciate them, send your resume with salary history in confidence to: the Janssen Research Foundation, Employment Office Box S691, 40 Kingsbridge Road, Piscataway, NJ 08855-3998. An Equal Opportunity/Affirmative Action Employer M/F/H/V.

JANSSEN RESEARCH FOUNDATION
“Where Research Is The Driving Force”
A Johnson & Johnson Company

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
EXCITING OPPORTUNITIES IN RESEARCH MANAGEMENT

The Directorate of Life Sciences, Air Force Office of Scientific Research is seeking experimental biologists and psychologists for 1-2 year positions as program advisors under the Intergovernmental Personnel Act to assist in developing and managing basic research programs in the life sciences. The Directorate of Life Sciences currently manages ongoing basic research programs in neuroscience, chronobiology, sensory and perceptual systems, cognitive science, toxicology and environmental science. In addition to these programs, we are interested in exploring new program areas within the life sciences, as well as, multidisciplinary programs forging links with other areas such as chemistry, physics, mathematics, and electronics.

Candidates for these positions must have a Ph.D. in an appropriate area of biological or psychological science, have experience in conducting independent research and experience or at least a strong interest in research management and shaping broad national basic research programs to address Air Force research needs. Individuals would be appointed under the Intergovernmental Personnel Act, and thus must currently be employed by an academic institution, another government agency, or certain nonprofit organizations. Location of assignment is Bolling Air Force Base, Washington, DC.

The Air Force Office of Scientific Research (AFOSR) is the Air Force’s single manager for basic research. An extramural program of grants or contracts, primarily to academic institutions, comprises 70% of the research effort with another 30% going to support basic research programs in Air Force laboratories.

Please send curriculum vitae to: Dr. William O. Berry
                      Director of Life Sciences
                      AFOSR/NL
                      Bolling AFB, DC 20332-6448
                      Tel: (202) 767-5021

AFOSR/NL
POSITIONS OPEN

POSTDOCTORAL POSITIONS
MOLECULAR PARASITOLGY

Positions available on NIH-funded projects to study a novel RNA virus and an unusual epimorphic-like DNA in leishmanial parasites. Details will be discussed in the interview. Send curriculum vitae, brief statement of research experience and interests, and three letters of recommendation to: Dr. S. Romero, School of Veterinary Medicine, Virginia Tech, Blacksburg, VA 24061.

POSITIONS OPEN

POSTDOCTORAL POSITION
MOLECULAR BIOLOGY

Three positions are available immediately to study (1) protein kinase signal transduction, (2) retinoic acid-regulated gene expression, and (3) cellular retinoic acid-binding proteins (CRABPs) and gene regulation in human skin. The aims of the research are: (1) to identify and characterize early retinoic acid-induced genes in human skin by differential and subtractive library screening, and (3) to investigate the regulation and function of CRABP proteins in human pathological states. Candidates should be familiar with molecular biology techniques including molecular cloning, cell transfection, and in situ hybridization. These positions offer excellent opportunities for career development in a highly productive, multidisciplinary environment. Salary is commensurate with experience. Send curriculum vitae, names and addresses of two references, and pre- or post-reprint(s) demonstrating such experience to: Professor Jerome Kowal, Veterus Hospital—K219, Cleveland, OH 44106.

POSITIONS OPEN

POSTDOCTORAL FELLOW
MOLECULAR BIOLOGY
APPLICATIONS ACCEPTED

Awarded to the best qualified candidate "to study gene expression in non-dividing cells (e.g., lymphocytes) in three projects. The projects are: (1) induction of new gene expression by retinoic acid in non-dividing cells; (2) in vivo induction of human gene expression in non-dividing cells; and (3) induction of new gene expression in non-dividing cells by retinoic acid analogs.

POSITIONS OPEN

POSTDOCTORAL ASSOCIATE
MOLECULAR BIOLOGY

The positions are available immediately to study the effects of toxins on epithelial cell differentiation and gene expression. Ph.D. degree is required. Applicants with expertise in molecular biology techniques are desirable. Send curriculum vitae and three references to: Dr. Ellen R. Korte, Department of Environmental Health Sciences, Case Western Reserve University, 2230 Adelbert Road, Cleveland, OH 44106-4940. CWRU is an Affirmative Action/Equal Opportunity Employer.

YALE UNIVERSITY
SCHOOL OF MEDICINE
DEPARTMENT OF THERAPEUTIC RADIOLOGY

POSTDOCTORAL FELLOWSHIP. Exciting opportunity for Ph.D. with background in molecular biology, protein biochemistry, or immunology and an interest in vascular biology or cell motility to join a vascular and tumor cell biology laboratory at Yale Medical School. Currently, we are studying the mechanism of action of unique new cell motility factor. Applicants must be U.S. citizens or permanent residents. Send curriculum vitae to: Dr. Elliot M. Rosen, Department of Therapeutic Radiology, 182 HRT, Yale University School of Medicine, 335 Cedar Street, New Haven, CT 06510.

POSTDOCTORAL RESEARCH ASSOCIATE. Position available July 1991 to study presynaptic receptors and signaling pathways which govern the release of autonomic neurotransmitters in the eye. Background in molecular pharmacology, second messenger systems, phosphoprotein analysis, and HPLC is desirable. Send curriculum vitae and names of references to: James E. Jumbllatt, Ph.D., Department of Ophthalmology and Visual Sciences, University of Louisigville, Louisville, KY 40292. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE. Work will involve lipid metabolism which includes isolation and analysis of phospholipids and sterols by thin layer chromatography (TLC), high pressure liquid chromatography (HPLC), mass spectroscopy, and NMR spectroscopy. It will also involve phospholipase A purification. Viral infections involving different kinds of mutations is also part of the project. Requires a Ph.D. degree in biochemistry; one publication on lipid analysis and its metabolism in which such techniques as TLC, HPLC, mass spectroscopy, and NMR spectroscopy are used; and one publication on protein purification, especially phospholipase A purification. Salary: $25,000 per year (negotiable). Must have proof of legal authority to work permanently in the United States. Send resume and reprints of publications to: H. J. Casida, Deparment of Entomology, 401 South State Street—3 South, Chicago, IL 60605, Attention: Mary Millea, Ref. V-IL-2699-M. No calls. An Employer-paid ad.
These are crystals of cyclophilin, a component of the immune system and the target of immunosuppressive drugs used to prevent the rejection of transplanted organs. By cloning the cyclophilin gene, expressing it in E. coli, and purifying the recombinant product, we can produce cyclophilin in quantities that allow x-ray crystallographic analysis of this molecule as part of the search for new approaches to therapeutic modulation of the immune response.

At SmithKline Beecham, developing drugs through innovative research has made us who we are today - a $9.2-billion global pharmaceutical and health care leader. One where scientific expertise and superior technological resources are found alongside caring individuals dedicated to improving the quality of life for all of us.

We're seeking scientists at all levels who feel strongly about their careers and want to pursue them in a progressive, opportunity-filled environment. If you're one such individual, write us at: SmithKline Beecham Pharmaceuticals, Research and Development, Dept. SC1, P.O. Box 58070, Philadelphia, PA 19102.

We Are An Equal Opportunity Employer, M/F/H/V.
RESEARCH SCIENTISTS

Natural Product Sciences, Inc. is a rapidly growing company developing novel pharmaceutical and agrochemical products based on natural product leads. With a strong in-house research program comprising chemistry, biology, and molecular biology and major industrial partners in both pharmaceuticals and agrochemicals, Natural Product Sciences is a leader in the natural products field.

As part of the continuing expansion of its research efforts, NPS now has openings for highly motivated Molecular Biologists with demonstrated skills in recombinant expression. Hands-on experience in molecular virology, baculovirus expression or expression in mammalian cells is particularly desirable. Applicants at all levels will be considered for Associate or Senior Scientist positions.

Natural Product Sciences offers competitive salaries, benefits and the opportunity for equity ownership. Our location on the western slope of the Rocky Mountains provides an unusually beautiful and livable environment in which to pursue innovative and important science.

Please send curriculum vitae and names and addresses of three references to: Director of Personnel, Natural Product Sciences, Inc., 420 Chipeta Way, Salt Lake City, UT 84108. Natural Product Sciences is an equal opportunity employer.

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RESEARCH SCIENTISTS

PANLABS is expanding its U.S. laboratory staff. We have opportunities for scientists with a demonstrated record of scientific innovation and independence. Positions available:

Ph.D. - Senior Chemist (Position #60)
Opportunity for a chemist to establish a core analytical/synthesis service function within a modern biotechnology laboratory. The range of projects runs from purification and structure determination of secondary metabolites to synthesis of model substrates for enzyme studies. Requirements for the position are: hands on experience in synthetic organic chemistry; mastery of chromatographic separations, including small molecules and proteins; experience with spectroscopy systems in structure determination of secondary metabolites; previous experience in Natural Products Chemistry desirable. The successful candidate will have a broad background in organic chemistry with demonstrated excellence as a scientist and manager.

Ph.D. - Senior Scientist: Biochemist/Cell Biologist (Position #61)
Opportunity for scientist with demonstrated success in developing and implementing cellular, receptor and enzyme assays for drug discovery. The successful candidate will have a Ph.D. in the Life Sciences or Chemistry and assume a leadership role in all aspects of initial drug discovery projects. Position involves the selection of relevant biochemical/cellular targets, development and validation of target assays, technology of high throughput screening, data handling and interpretation, and staff management. Significant opportunities exist for career advancement in scientific project management.

Candidates should have good supervisory and communication skills, publication record, and a strong desire to work with a team.

PANLABS is a growing U.S. based international company that has provided R&D services to pharmaceutical companies and the fermentation industry worldwide for 20 years. Located in the high tech corridor north of Seattle, PANLABS offers competitive salaries and benefits. Submit CV with names and phone numbers of three references to:

PANLABS, INC.
Attn: Human Resources Manager
11804 North Creek Parkway South
Bothell, Washington 98011-8805

PANLABS
An equal opportunity employer
MAMMALIAN TOXICOLOGIST

Rhone-Poulenc Inc. is a rapidly growing subsidiary of one of the largest chemical/agrochemical companies in the world. The Mammalian Toxicology vacancy is at our Research Triangle Park, North Carolina campus.

The successful candidate will assist in establishing and maintaining mammalian toxicology programs on new and existing products of our agricultural chemical company. Responsibilities include protocol design, monitoring of contracted studies, consultation with business groups and interaction with state and federal regulatory groups. A Ph.D. in Toxicology or a related discipline is required with a minimum of three (3) years of contract laboratory, industrial, or regulatory experience. Excellent oral and written communication skills are essential. The ability to interact successfully with a number of internal and external publics is critical as well.

We offer a competitive compensation and benefits package. If you possess the qualifications and experience above and would like to be considered for this vacancy, please send your resume, including salary history and requirements, to:

Dr. Glenn S. Simon
Director of Toxicology
Rhone-Poulenc
2 T.W. Alexander Drive
Research Triangle Park, NC 27709

An Equal Opportunity/Affirmative Action Employer M/F/H/V

RESEARCH OPPORTUNITIES
EXPERIMENTAL HEMATOPOIESIS

Amgen is committed to the development of human therapeutics based on the principles of Cellular and Molecular Biology. Our continued success has led to an expansion of our exploratory research efforts in Hematopoiesis. As a result, we are actively seeking scientists to contribute to the development of research programs leading to the identification, characterization, and cloning of novel hematopoietic growth factors.

RESEARCH SCIENTISTS
Department #590

Candidates for Research Scientist positions must have a PhD and a minimum of two years’ relevant post-doctoral experience in expression cloning of cellular growth or differentiation factors. Expression in mammalian systems and experience with retroviral vectors is highly desirable.

RESEARCH ASSOCIATES
Dept. #591

Research Associate candidates must have a BS or MS in an appropriate discipline and a minimum of two years’ experience in human and rodent bone marrow culture, including the identification of hematopoietic cells by cytological and immunological methods. Experience in enrichment and purification of progenitor cell types is highly desirable.

Amgen offers a stimulating and challenging research environment in which scientists are provided the resources necessary to achieve their potential. Our compensation and benefits package also reflects our commitment to attracting the best scientific talent available.

If you have the necessary qualifications and would like to be a part of an organization that places its highest values on the contributions of its research staff, we would like to have the privilege of receiving your CV at:

AMGEN, INC.
Recruitment, Dept. # (please specify)
Amgen Center
Thousand Oaks
CA 91320-1789

Equal Opportunity Employer
Yeast Molecular Genetics
March, 1992

Students will be introduced to the genetics and molecular biology of the yeast Saccharomyces cerevisiae. Specific techniques that will be used include: yeast transformation, rescue of plasmids from yeast, yeast crosses, tetrad analysis, complementation of yeast mutations, isolation of DNA from yeast, OFAGE analysis of yeast chromosomes, and the use of PCR to diagnose genomic alterations. Among other experiments, we will attempt to identify and isolate the yeast genes that are functional homologues of genes from other organisms (including humans). Tuition is $1,950.

Instructors:
Thomas Petes, Ph.D. UNC-CH
Kerry Bloom, Ph.D. UNC-CH
Elaine Yeh, Ph.D. UNC-CH

Future Carolina Workshops
Transgenic Mice—Summer, 1992
Molecular Approaches to Gene Expression Summer, 1992

Carolina Workshops
University of North Carolina
at Chapel Hill

MOLECULAR TECHNIQUES FOR HUMAN/MAMMALIAN GENOME ANALYSIS
October 28—November 15, 1991

A general course focusing on the application of modern molecular biological techniques to genome analysis. Participants will learn procedures including the isolation of plasmid and human genomic DNA, Southern blotting to single copy sequences in complex genomes, restriction fragment length polymorphism (RFLP) analysis, cloning of polymerase chain reaction (PCR) products, sequencing of cloned DNA fragments, direct sequencing of PCR products, and as time permits, other applications of PCR. Tuition is $1,950.

Instructors:
Rosann Farber, Ph.D. UNC-CH
Nobuyo Maeda, Ph.D. UNC-CH
Katherine High, M.D. UNC-CH

CAROLINA WORKSHOPS are a series of intensive hands-on laboratory courses designed to teach cutting edge methods in molecular biology. The techniques include basic manipulations such as isolation of insert and vector DNA, ligations, electrophoretic analysis and elution from gels, blotting techniques, preparation and labeling of probes, identification of cloned DNA, and protein purification. Each course provides experience in the basic techniques which serve as a solid background in molecular biology. Each individual course has an identifiable theme and emphasizes in addition to the general techniques, specialized techniques such as DNA sequencing, in vitro mutagenesis, dDNA synthesis, expression vectors or protein/immunological techniques.

Many applicants to the Carolina Workshops already hold the M.D. or Ph.D. degree. Our courses are very heavy on hands-on contact with the protocols, light on lectures concerning the basics. Hence, a reasonable familiarity with the concepts behind DNA and protein techniques such as those found in good texts (e.g. Principles of Gene Manipulation by R. W. Old & S. B. Primrose, Blackwell Scientific Publications, 1989) is necessary to get a good yield from these courses. Experience with running these courses for eight years now indicates that both students with and without any prior hands-on experience with molecular techniques find these courses useful. Experienced students benefit from in-depth interaction with the instructors; novices learn the realities behind the innocent looking protocols. The result obtained in the Carolina Workshops can be considerable. In a recent in Vitro Mutagenesis workshop one student designed, tested and used a mutagenic oligonucleotide to generate three site-directed mutants. Another student, who had trouble producing mutants before the course, attained success within two weeks after the course.

To apply, send a curriculum vitae and a brief letter describing your research interests and their relevance to the Workshop for which you apply. Applicants should contact the program office as soon as possible. Please indicate your complete mailing address and telephone/fax number. Full consideration will be given to applications received for the "Human/Mammalian Genome Analysis Workshop" by SEPTEMBER 1, or "Yeast Workshop" by FEBRUARY 1, 1992.

For further information or to apply, contact:
Dr. Wayne Litaker, Facility Director
University of North Carolina at Chapel Hill
Program in Molecular Biology & Biotechnology
402 Taylor Hall CB 7100 S
Chapel Hill, North Carolina 27599—7100
TELEPHONE (919) 966-1730, FAX (919) 966-6821

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RESEARCH
SCIENTISTS

Immunotoxicology
Responsible for initiating preclinical in-vitro and in-vivo immunological safety studies for our therapeutic products. The ideal candidate will be familiar with animal studies such as contact sensitivity and cell proliferation assays. Requires a Ph.D. with experience in allergy, immunotoxicology research, animal hypersensitivity studies or assessing adverse immune reactions.

Monoclonal Antibody Development
Produce and characterize monoclonal antibodies to cell surface markers and glycoproteins. Research will require candidate to immunize animals, perform cell fusions and cell cultures, develop and perform screening assays, and purify and characterize candidate monoclonal antibodies. Requires a Ph.D. with 2-3 yrs experience in the production and characterization of monoclonal antibodies.

Please send your resume to Human Resources, Dept. S621, Genzyme Corporation, One Kendall Square, Cambridge, MA 02139.

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RESEARCH
ASSOCIATES

Cell Biology
We currently have two positions available in our cell biology group. The successful candidates will conduct applied and basic research on protein targeting and mechanisms of cell-cell interactions for development of new therapeutics. A BS/MS in Cell Biology or a related field with 3-7 years experience in either performing antibody, receptor, and cell-based assays, and growing and maintaining cells in culture or working with animals, evaluating biodistribution data by immunohistochemical and biochemical techniques, and transfusing mammalian cells, is required.

Please send your resume to Human Resources, Dept. S621, Genzyme Corporation, One Kendall Square, Cambridge, MA 02139.

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Plan Now to Attend

Fifth Annual North American Cystic Fibrosis Conference

Loew’s Anatole Hotel
Dallas, Texas
October 2-5, 1991

▲ PLENARY SESSIONS
“The Gene Two Years Later: Progress & Projections”
Francis S. Collins, M.D., Ph.D.

“New Frontiers in Therapy”
Ronald G. Crystal, M.D.

▲ SPECIAL SESSION
Late-Breaking Science

▲ SYMPOSIA
• Infant Management
• Parent-Child Relationships
• Gene Transfer
• Controversies in Nutrition
• Controversies in Care
• Psychosocial Functioning
• Rehabilitation Issues
• Aerosol Antibiotic Therapy
• Mechanisms
• Localization, Function &
• Functional Consequences
• Diagnosis of Respiratory
• Endogenous Metabolism of CFTR
• of CFTR Expression
• Pathogens
• Pseudomonas Adherence
• Non-epithelial Expression
• Systems for Structure/
• Transport
• Expression
• Function Analysis

▲ SHORT COURSES
• Designing & Implementing Clinical Trials
• Parent-Child Relationships
• Gene Transfer
• Research Nurse/Study Coordinators’ Training Course
• Molecular Biology 101
• Psychological Functioning

▲ PROGRAM COMMITTEE
CHAIRMEN: Richard C. Boucher, M.D. and Paul M. Quinton, Ph.D.

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Anne Baird, M.S.W.
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Daniel V. Schidlow, M.D.

▲ CONTRIBUTED PAPERS AND CONFERENCE PUBLICATION
Contributed papers will be presented in poster form. Also featured will be 32 workshops and roundtable discussions on more than 60 topics. Conference proceedings will be published as a supplement to Pediatric Pulmonology.

Registration Fees: $300 (U.S.); $250 for allied health professionals; $150 for students, residents, fellows and postdoctoral trainees.
Short Course Tuition: $100 per person, per course
Pre-registration Deadline: September 3, 1991
For more information, please contact the CFF.
ENVIRONMENTAL TOXICOLOGIST

The Bureau of Environmental Response and Remediation is seeking a staff toxicologist. The position will provide technical and administrative support to the Superfund and Underground Storage Tank (UST) programs. Duties will include the review and generation of toxicological documentation used to support risk-based decision-making. Primary skills required include a sound understanding of the principals and applications of environmental toxicology and risk assessment, and an ability to communicate and summarize complex issues. For further information, contact Daniel Symonik at 801-538-6338.

RESEARCH ASSOCIATE

Ph.D. in biochemistry, physiology, entomology or related discipline for interdisciplinary research on the role of arachidonic acid metabolites in tissue inflammation and in laboratory facilities in a pleasant medium-size community with nearness to large cities. Starting salary: $23,000 per annum plus fringe benefits. Send résumé and names and addresses of three references to: Dr. John R. Sauer, Department of Entomology, Oklahoma State University, Stillwater, OK 74074-0464. An Affirmative Action/Equal Opportunity Employer.

BIOMOLECULAR ELECTRONICS AND NANOSTRUCTURES

BECKMAN INSTITUTE FOR ADVANCED SCIENCE AND TECHNOLOGY

Applications are solicited for participation in a multidisciplinary research effort devoted to the research and development of novel macromolecules as the building blocks for a new generation of electro-optical devices (see New Scientist, 18 May 1991, p. 24). Experience in at least one of the following general areas is required: genetic engineering materials science, laser spectroscopy, atomic probe microscopies, semiconductor physics, or quantum optics. Salary commensurate with experience. U.S. citizenship and/or permanent residency required. Send curriculum vitae and three letters of recommendation to: Professor Stephen G. Sligar, Departments of Chemistry, Biochemistry, and Biophysics, 1209 West California Street, Urbana, IL 61801.

RESEARCH ASSOCIATE

POSITION INVOLVING ELECTRON MICROSCOPY

DEPARTMENT OF MOLECULAR GENETICS AND CELL BIOLOGY

THE UNIVERSITY OF CHICAGO

A research associate position is available in the area of transgenic mice as models for the study of human diseases. The laboratory has extensive expertise in molecular biology and genetic mouse technology. We are currently searching for an accomplished electron microscopist to participate in these and other studies. Knowledge of embedding/sectioning of tissues and immunoelectron microscopy is desirable. U.S. citizenship and/or permanent residence required. Salary is excellent and commensurate with experience. Send curriculum vitae and three references to: Dr. Elaine Puchs, Howard Hughes Medical Institute, Department of Molecular Genetics and Cell Biology, The University of Chicago, 5841 South Maryland Avenue, Box 391, Chicago, IL 60637. An Affirmative Action/Equal Opportunity Employer.

RESEARCH AND DEVELOPMENT CHEMIST

Conduct research projects aimed at developing novel, advanced performance chemicals and/or processes for the paper, cosmetics, personal care, household products, paints, inks, adhesives, cleaners, and industrial and institutional products industries. Design and conduct synthesis, purification, analysis, characterization, evaluation, and formulation of a wide range of organic materials. Requires Ph.D. degree in organic chemistry and either bachelor's or master's degree in biochemistry. Ph.D. emphasis must have been in synthesis, mechanistic chemistry, and physical organic chemistry. Also requires at least 3 years of experience with organic syntheses via biocatalysis and enzyme kinetics in the job or as a postdoctoral research scientist. Salary: $40,980 per year, 40 + hours per week, 8:00 to 5:00, Monday through Friday. Apply to: Job Service, 300 West Trade Street, Charlotte, NC 28202. Reference: Job Order #NC 2605497.

SIGNAL TRANSDUCTION IN LUNG CELLS

6 to 9 October 1991. Conference site: Woods Hole. G-proteins, phosphoinositides, calcium fluxes, tyrosine kinases, and similar topics in lung cells are welcome. Registration fee: $150. For further information, contact: J. S. Brody, M.D., Boston University Medical Center, 80 East Concord Street, K6, Boston, MA 02118 or FAX: 617-566-8093. Application deadline: 1 August 1991.

MOLECULAR MECHANISMS OF CARCINOGENESIS IN HUMANS AND RODENTS

8 to 12 SEPTEMBER 1991

An international symposium entitled "Molecular Mechanisms of Carcinogenesis in Humans and Rodents" will be held at the National Institute of Environmental Health Sciences, 111 Alexander Drive, Research Triangle Park, North Carolina, from 8 to 12 September 1991. For further information, call: Dr. Marshall Anderson, 919-541-3519, or Dr. Carl Barrett, 919-541-2992.

MEETINGS
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The Gilson FC 203, for example, has a 98% problem-free performance record. And there are some FC 80s that are still on the job after 20 years. That's the kind of reliability you get with a Gilson fraction collector...for any process, any collection volume, any vessel size.

New Gilson collector offers high-volume, high-capacity

The new FC 204 is a multi-mode fraction collector that holds 176 18 mm tubes for preparative applications; 240 13 mm tubes for semi-preparative applications and; 432 10 mm tubes for analytical HPLC. And in low pressure LC systems, the FC 204 can provide start/stop control of pumps and chart recorders.

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New FC 204 high-capacity, high-volume fraction collector.

Micro-Fractionators offer time and drop collection options

Gilson FC 80 and FC 100 Micro-Fractionators are two of the most popular time/drop collectors ever made. Tens of thousands are in use in LC systems, HPLC systems and other processes. The FC 80 occupies less than a square foot of bench space but offers a total collected volume of 720 ml. The FC 100 offers 100-sample capacity in volumes up to 25 ml per tube.

Multi-mode 201 and 202 offer more collection options

If your requirements can't be met with an FC 204, FC 203 or one of our Micro-Fractionators, chances are you need a 201 or 202. These collectors offer 15 operating modes, high capacity and virtually unlimited collection volumes. The 201 has a 120-tube capacity while the larger 202 offers 540-tube collection in a five-rack configuration.

For information on choosing the right fraction collector...

...request a free packet of literature that describes and explains all of the options. You can simply mark the reader service number, contact your local Gilson representative, or call us toll-free.

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