WASHINGTON, May 21 - The American Association for the Advancement of Science (AAAS) operates an Employment Exchange during the weeks of three AAAS-sponsored annual meetings: AAAS Annual Meeting, AAAS Pacific Division Annual Meeting, and Science Innovation. The Employment Exchange is a career opportunities/career development service for candidates seeking employment, and employers with positions to be filled. Interview scheduling, position posting, a message center, job and resume referrals, private interview booths, and career development seminars are provided during the weeks of these annual meetings.

AAAS will be operating a Job and Resume Referral Service at the AAAS Pacific Division Annual Meeting at the University of Montana, Missoula, 20-24 June. A full-service Employment Exchange operation (including interview scheduling services and career development seminars) will be conducted at Science Innovation '93 at the Hynes Convention Center in Boston, Massachusetts, 6-10 August.

The Employment Exchange recently expanded its services to include year-round candidate referrals. Now in addition to the services provided at the AAAS-sponsored meetings, candidates also receive the benefit of continuous year-round exposure to scientific employers by advertising in the new Employment Exchange Bulletin.

If you are presently in the job market, a graduate student, or a postdoctoral or experienced scientist, and would like to take advantage of our efforts on your behalf, contact: Jacquelyn Roberts or Nina Kobes, AAAS Employment Exchange, 1333 H Street, NW, Suite 1163, Washington, DC 20005. Or call, 202-326-6737 for more information and enrollment forms.

ATTENTION Science RECRUITMENT ADVERTISERS

You, too, may take advantage of the services provided by the AAAS Employment Exchange. Call 202-326-6737 today, and find out how you can participate in the Exchange at the upcoming meetings in June and August 1993.

Be sure to ask about receiving a FREE copy of the Employment Exchange Bulletin (available in August '93), and our $50 SPECIAL for SCIENCE Recruitment Advertisers!!
SCIENCE PERSONNEL PLACEMENT

LINE CLASSIFIED ADVERTISEMENTS

- Advertisements may be accepted only within the categories designated. Advertisements concerningervance, sex, color, handicap or sexual preference. The AAS encourages employers to actively recruit and employ underrepresented minority groups. Science reserves the right, at its discretion, to decline to publish advertisements submitted to it.

- Deadlines: Advertisements will be accepted on a weekly basis. Call or send your ad to: Science Classified Advertising, 1333 H Street, N.W., Room 814, Washington, DC 20005. Telephone: 202-326-6555. Fax: 202-682-0816.

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- POSTS OPEN

HUMAN BEHAVIORAL PHARMACOLOGIST

Applications are invited for a tenure-track position in the Department of Psychiatry and Human Behavior at the University of Minnesota Medical Center. The position will be at the ASSOCIATE PROFESSOR level, depending upon qualifications. Candidates should have a Ph.D. in Psychology, Pharmacology or Neuroscience and/or M.D. with expertise in behavioral pharmacology and its clinical applications. The successful candidate will be expected to develop an externally funded research program in human behavioral pharmacology and to participate in the training of graduate students and postdoctoral associates. Salary will be commensurate with rank and experience. Applications are invited from qualified candidates to fill this position. Please send a curriculum vitae, statement of current and future research goals and names of three references: William L. Woolverton, Ph.D., Chair of Search Committee, Department of Psychiatry and Human Behavior, the University of Minnesota Medical Center, 2500 North State Street, Jackson, MS 38021. Applications will be accepted until August 31, 1993. Equal Opportunity Employer, M/F/D/V.

ASSISTANT/ASSOCIATE PROFESSOR PHARMACOLOGY/TOXICOLOGY

The Department of Pharmacology/Toxicology at Ponce School of Medicine (PSM) invites applications at the Assistant or Associate Professor level. Criteria include a Ph.D. (Pharmacology or Toxicology preferred) and/or M.D. with two or more years of postdoctoral experience. Applicants are expected to develop an externally funded research program that applies modern methods of biochemistry and molecular biology to toxicology. Applicants with prior teaching experience in medical toxicology are highly desired because providing high quality educational experiences in the medical toxicology program is a requirement of this position. Minority candidates and women are encouraged to apply. Submit curriculum vitae, summary of research plans and educational interests, and the names of three references to: Dr. Arthur Hupka, Chairman, Department of Pharmacology/Toxicology, Ponce School of Medicine, P.O. Box 7004, Ponce, Puerto Rico 00732. Search will continue until the position is filled. PSM is an Equal Opportunity Institution.

ASSISTANT PROFESSOR

The Department of Biochemistry at NYU Medical Center is seeking to fill a tenure-track faculty position in the areas of molecular genetics or biochemistry at the level of Assistant Professor. The position is dependent upon the availability of funds. The successful candidate must have a Ph.D. or M.D. degree and have at least two years of postdoctoral research experience. The desired candidate is expected to establish a rigorous independent research program, participate in teaching graduate and medical students, and make contributions to other departmental academic activities.

The successful candidate will also be expected to establish a rigorous independent research program, participate in teaching graduate and medical students, and contribute to other departmental academic activities.

Applications will be accepted until August 31, 1993. Equal Opportunity Employer, M/F.

NYU MEDICAL CENTER

Where Excellence Is A Way Of Life.

ASSISTANT PROFESSOR OF PHARMACEUTICAL SCIENCES

Applications are invited for a full-time, tenure-track position at this Ph.D. or B.S. in pharmacy school position in the areas of medicinal and pharmaceutical chemistry with a particular interest in molecular pharmacology, pharmacaceutics, nutrition, clinical pharmacy or pharmacology. This position is highly desirable. Duties include the teaching of medicinal chemistry courses and the development of an independent research program. Salary will be commensurate with experience. Send curriculum vitae and the names and addresses of four references to: S. E. O’Hara, Ph.D., School of Pharmacy & Allied Health, Creighton University, Omaha, NE 68178. Equal Opportunity/Affirmative Action Employer.

ASSISTANT/ASSOCIATE PROFESSOR ORAL PATHOLOGY

The University of Maryland at Baltimore (UMB) Department of Oral Pathology, Dental School is seeking a FELLOWSHIP MEMBER at the assistant/associate professor level, with particular interest and experience in experimental oral pathology. Applicants are expected to compete successfully for extramural funding and to have an interest in patient care. The successful candidate will be expected to develop an externally funded research program in oral and maxillofacial pathology. Salary and rank will be commensurate with the applicant's credentials and accomplishments. Send curriculum vitae and the names of three references to: J. J. Sauk, Chair Department of Oral Pathology/Dental School, UMB, 606 West Baltimore Street, Baltimore, MD 21201. University of Maryland at Baltimore is an Equal Opportunity Employer.

MOLECULAR NEUROBIOLOGIST

The section of Neurobiology and Behavior, Division of Biological Sciences, Cornell University, invites applications for a tenure-track position in molecular neurobiology at the ASSISTANT PROFESSOR level, or beginning the ASSOCIATE PROFESSOR level, available July 1994. We seek a neurobiologist studying the molecular mechanisms of signal transduction in the nervous system. Possible research interests include molecular mechanisms of transmitter release, structure/function studies of channel and ionophores, second messenger pathways, and other functional aspects of synaptic transmission and its modulation.

Applicants should send curriculum vitae, selected reprints or preprints, and statements of research and teaching interests, and arrange to have three letters of recommendation sent to: Search Committee, Section of Neurobiology and Behavior, Cornell University, Seeley M. Gutt Hall, Ithaca, NY 14853. The Search Committee will begin screening applications September 15, 1993.

Cornell University is an Affirmative Action/Equal Opportunity Employer. Women and minority candidates are urged to apply.

FACULTY POSITIONS

The Department of Microbiology and Immunology, and the Program in Molecular Medicine of the University of California, San Francisco School of Medicine, are seeking outstanding candidates to fill two faculty positions for a Ph.D. or M.D. degree.

In addition to departmental affiliation, the positions include membership in the Program in Biological Sciences, and the graduate curriculum and program. Candidates are encouraged to develop a research program that will benefit from close collaboration with other programs and departments within the University. Special consideration will be given to individuals with demonstrated ability and experience in the following areas: (1) molecular immunology; (2) molecular mechanisms of basic processes or pathogenesis in microorganisms. Rank will be commensurate with level of experience. Interested candidates should send curriculum vitae and a statement of future research plans, and have three letters of recommendation sent by June 15, 1993, to: Microbiology Search Committee, c/o Mary Jo Kelly, Department of Microbiology & Immunology, Box 0502, University of California, San Francisco, San Francisco, CA 94143. UC is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

SENIOR ENVIRONMENTAL PLANNER

Consumers Power Company, Michigan's largest gas and electric utility and the principal subsidiary of CMS Energy Corporation, has a professional opportunity for an individual with at least five years of experience in conducting environmental assessments on gas pipeline, electric transmission line and other construction projects. Candidates must have an undergraduate and graduate degree in one or a combination of the following majors: ecology, environmental science, or urban planning. Experience in computer assisted graphics would be beneficial. We offer a competitive salary and comprehensive benefit package. For confidential consideration, please send resume stating degree, years experience, salary history and any other pertinent information to: Professional Staffing, Consumers Power Company, 455, Consumers Power Company, 212 West Michigan Avenue, Jackson, MI 49201. An Equal Opportunity Employer, M/F/H/V.
Scientific Leaders at Pfizer Central Research

Pfizer Central Research Division is a global medical and scientific community with headquarters in Groton, Connecticut. Our expanding facility offers an unparalleled environment for professionals who want to discover innovative treatments for disease as well as their own potential.

**Dr. Jean Beebe, Research Scientist**
My lab studies differentiation of tumor cells and seeks to develop novel anti-cancer agents. I was particularly attracted by Pfizer's target-based approach to drug discovery. I find that Pfizer supports women not only in philosophy but in practice.

**Dr. Debra Williams, Sr. Associate Director/Group Leader**
I have a background in teaching, research and clinical medicine; and fortunately, I have had many choices. As part of clinical research at Pfizer, I am responsible for drug trials for opportunistic infections in AIDS and for clinical studies on a major new antibiotic drug. My work enables me to continue a limited clinical practice as well, and I'm convinced that I made the right decision for me and for my family.

**Dr. Linda Chatman, Sr. Pathologist**
I always wanted to be a veterinarian, and as I became more specialized, I chose toxicological pathology. Here at Pfizer, I look for adverse effects of compounds and study the mechanism of drug action. I find that the quality of your work is what counts. My experience has been extremely positive. Pfizer provides the career path—then it's up to you.

**Dr. Anabella Villalobos, Sr. Research Scientist**
I always planned to go into drug discovery, and Pfizer was on the top of my list. In my area, Alzheimer's disease, there is an immediate need for innovative new drugs, and I want to be a part of that drug discovery process. My fascination with science began in high school when a single teacher who truly loved chemistry inspired me.

**Dr. Yu-Hyung Chen, Principal Research Investigator**
As a medicinal chemist, I am currently involved in the synthesis of compounds to treat Alzheimer's, anxiety and depression. Developing research proposals that ultimately become projects is exciting—and working with great biologists is doubly rewarding. When I came to Pfizer ten years ago, there were few women chemists. Today, the number is steadily increasing, and that's the way it should be.

**Dr. Melissa Tassinari, Manager**
My teratology work is an essential part of new drug discovery. Our primary concern is to ensure that drug candidates have no adverse effects on the reproductive system. At Pfizer, I've had many terrific opportunities; and setting up a lab to conduct a full range of reproductive studies, including neurobehavioral research, is definitely one of them. I find the team approach here to be consistent with my way of operating. That's what I like about my group—we all work toward a common goal.

As a research-based, global health care company, Pfizer's mission is to create innovative products that improve the quality of life around the world. If you are interested in joining our dynamic scientific team, please send your resume to Manager, Pfizer Inc, Central Research Division, Groton, CT 06340. We are an equal opportunity employer.
**POSTDOCTORAL POSITION in NMR SPECTROSCOPY**

A POSTDOCTORAL POSITION is available to study plant pre-mRNA splicing using molecular and biochemical approaches to elucidate the role of cis- and trans-acting elements responsible for the efficient splicing of pre-mRNA. The position is available to study insect P450 monooxygenases with the aim of defining the catalytic site in an insect furano-coumarin-metabolizing P450 using baculovirus or E. coli expression vectors. Experience with molecular biology/biochemistry is desirable. Please send curriculum vitae and names of three references to: Dr. Mary A. Schuler, University of Illinois, Department of Plant Biology, 190 PABL, 1201 West Gregory Drive, Urbana, IL 61801.

**UIC is an Affirmative Action/Equal Opportunity Employer.**

**POSTDOCTORAL POSITION, PH.D. (physiology, animal science, experience with cell and molecular techniques) for work in intestinal growth and development as influenced by growth factors and nutritional mitogens. Experience in intestinal function and in handling experimental animals would be helpful. Send curriculum vitae and three letters of recommendation to: Dr. William J. Cranston, Department of Ecology and Evolutionary Biology, 190 PABL, 1201 West Gregory Drive, Urbana, IL 61801. Case Western Reserve University is an Equal Opportunity/Affirmative Action Employer.**

**POSTDOCTORAL POSITION available immediately to study repair of ultraviolet radiation-induced DNA damage in germinating Bacillus subtilis spores, in the laboratory of Wayne L. Nicholson, Ph.D. A Ph.D. degree and research experience in molecular biology, protein biochemistry, or bacterial genetics is required. Send curriculum vitae and the names of three references to: Dr. Human Resource Services, Texas College of Osteopathic Medicine, Camp Bowie Boulevard, Fort Worth, TX 76107; Telephone: (817) 735-2690, FAX: (817) 735-5000. TCOM is an Equal Opportunity/Affirmative Action Employer/Educator.**

**POSTDOCTORAL POSITION available immediately to conduct electrophysiological and pharmacological studies of the inositol phosphate cascade in photoreceptors. Please submit curriculum vitae and three letters of recommendation to: Alan Fein, Ph.D. Department of Biology, MC3505 University of Connecticut Health Center Farmington, CT 06030. An Affirmative Action/Equal Opportunity Employer, M/F/D/V.**
POSTDOCTORAL FELLOWS

- **Apoptosis, Cell Cycle Control, and DNA Repair**
  Individual will explore an aspect of p53 in carcinogenesis, cell cycle checkpoint control, apoptosis and DNA repair. The successful candidate will create mouse models utilizing transgenic and ES cell technologies to express normal and mutant forms of p53 and will collaborate with Glaxo and academic scientists working on the biochemistry of cell cycle control and DNA repair. Experience in molecular genetics and a keen interest in cell cycle control and apoptosis are required. Please refer to Job # ASC911701 on all resumes.

- **Intracellular Trafficking and Secretion**
  Individual will study mechanisms of intracellular trafficking, processing and secretion of cytokines important in the regulation of the inflammatory response. Strong background in intracellular protein trafficking, processing or secretion is required. An interest in immunoregulation and inflammation is desirable. Please refer to Job # ASC911702 on all resumes.

- **Signal Transduction Pathways**
  Individual will join a multi-disciplinary team studying the role of SH2, SH3, and catalytic domains of src-tyrosine kinase in oncogenesis. Protein chemistry and biophysical techniques will be used to define the nature and interactions of the catalytic and ligand binding properties of src-tyrosine kinase. Experience in enzymology, protein chemistry and biophysical techniques is required. Experience in signal transduction is beneficial. Please refer to Job # ASC911703 on all resumes.

- **Structural Studies of DNA-Binding Proteins**
  Individual will investigate the regulation of gene expression through studies aimed at solving the tertiary structure of transcription factor – DNA complexes. Experience in protein purification and protein crystallography is required. Please refer to Job # ASC911704 on all resumes.

- **Structure/Function Studies of G-Protein Coupled Receptors**
  Individual will join a multi-disciplinary research team investigating the structure/function relationships of seven transmembrane cell surface receptors. Candidate must have a background in molecular biology and protein structure with experience in one or more of the following areas: in vitro mutagenesis, gene expression, DNA sequencing, receptor-ligand interactions, molecular modeling or X-ray crystallography. Please refer to Job # ASC911705 on all resumes.

All candidates will have distinguished themselves by academic scholarship and excellence in research leading to the award of a Ph.D. in a relevant life science area within the past three years. Appointments will be made for two years with possible extension to third and final year upon favorable internal review and recommendation.

These Fellowship openings offer you the opportunity to strengthen your scientific reputation and career advancement by publication and presentation of outstanding research conducted in an excellent environment. In addition, Glaxo is proud to offer a highly competitive compensation package. Applicants should send their curriculum vitae, a statement of research interest, a list of professional references, and the Job # of interest, to: Human Resources Department, Glaxo Inc., P.O. Box 13388, Research Triangle Park, NC 27709. (No Phone Calls or Agency Referrals, Please.) An Equal Opportunity Employer M/F/D/V.
APPLICATIONS AND NOMINATIONS ARE INVITED FOR THE POSITION OF PRESIDENT OF JOINT OCEANOGRAPHIC INSTITUTIONS INCORPORATED (JOI). OF SPECIAL INTEREST ARE CANADIAN-BASED CANADIAN-BASED SENIOR LEADERSHIP IN THE OCEAN AND ESTUARY SCIENCE COMMUNITY. THE UNIVERSITY OF HAWAII (UH) IS INVITED TO SUBMIT A NOMINATION TO THE SEARCH COMMITTEE, AND THE AWARD OF THE PRESENT PRESIDENT OF JOI WILL BECOME AVAILABLE.


JOI IS LOCATED IN WASHINGTON, D.C. THE PRESIDENT REPORTS TO A BOARD OF GOVERNORS COMPRISING ONE REPRESENTATIVE FROM EACH MEMBER INSTITUTION. PRINCIPAL QualIFICATIONS INCLUDE EXCELLENT LEADERSHIP, STRONG SCIENTIFIC AND TECHNICAL QUALIFICATIONS, AND THE ABILITY TO MANAGE WITH EXPERIENCE WITH LARGE SCIENTIFIC PROGRAMS AND PROVEN ABILITY TO WORK EFFECTIVELY WITH NATIONAL AND INTERNATIONAL ORGANIZATIONS AND AGENCIES ON BEHALF OF THE U.S. SCIENTIFIC COMMUNITY.

NOMINATIONS OF QUALIFIED PERSONS AND APPLICATIONS FROM INDIVIDUALS ARE ENCOURAGED. SUBMIT COVER LETTER, CURRICULUM VITAE, AND ADDRESSES OF THE PROFESSIONAL REFERENCES TO DR. CRAIG E. DORMAN, CHAIRMAN, JOI BOARD OF GOVERNORS, C/O WOODS HOLE OCEANOGRAPHIC INSTITUTION, WOODS HOLE, MA 02543, OR BY PHONE (508-457-2190). APPLICATIONS AND NOMINATIONS WILL BE CONSIDERED BEGINNING IN LATE JUNE 1993, AND THEREAFTER UNTIL THE POSITION IS FILLED. JOI INC. IS AN EQUAL OPPORTUNITY EMPLOYER.

POSTDOCTORAL POSITIONS AVAILABLE IMMEDIATELY TO STUDY THE RNA-PROTEIN INTERACTIONS AND DESIGN OF ARTIFICIAL PROTEINS.

1. BIOORGANIC/BIOINORGANIC CHEMIST: PROJECTS IN THE SYNTHESIS OF MODIFIED AMINO ACIDS AND NUCLEOSIDES. EXPERIENCE IN SYNTHETIC CHEMISTRY IS REQUIRED; EXPERIENCE IN CATALYSIS, BIOCHEMISTRY DESIRABLE. (2) BIOLOGICAL/BIOCHEMIST: PROJECTS INVOLVE THE SYNTHESIS OF MODIFIED AMINO ACIDS AND NUCLEOSIDES. EXPERIENCE IN EXPERIMENTAL CHEMISTRY IS REQUIRED; EXPERIENCE IN BIOCHEMISTRY DESIRABLE.

THE UNIVERSITY OF HAWAII IS AN EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER.
Institute For Molecular Biologicals

Miles, Inc., Pharmaceutical Division, a rapidly expanding, highly progressive company, offers exceptional growth and advancement opportunities. Join our team oriented, interdisciplinary environment in West Haven, CT.

We currently have several research positions available in our Institute for Molecular Biologicals. In these positions you will participate in discovery research to identify and characterize novel therapeutic proteins.

MOLECULAR BIOLOGY AND GENE EXPRESSION

We are looking for two Senior Associate Research Scientists to carry out research in the areas of cloning and expression of genes using mammalian and yeast expression systems. The successful applicants will have extensive experience in several areas of recombinant DNA technology such as gene cloning, library and vector construction and screening, DNA sequencing, RNA transcription analysis, in vitro mutagenesis, PCR methodology, mammalian cell culture and analysis of expressed gene products. You will also be involved in the development and/or application of specific assays for the optimization of gene expression.

A MS degree with 2 years' experience or a BS degree with 4 years of experience is required. Experience in mammalian cell culture is a must. Knowledge of yeast molecular biology is desirable for one of the positions. Excellent interpersonal and communication skills are necessary.

PROTEIN BIOCHEMISTRY

We are looking for an Associate Research Scientist to participate in investigations into the interactions of growth factors and cytokines with their receptors. The successful applicant will have proven experience in Protein Biochemistry, particularly ligand receptor binding and analysis, SDS-PAGE and Western blotting, immunoprecipitation, enzymatic assays, and protein purification. You must also have a working knowledge of molecular biology techniques, such as subcloning, sequencing, mutagenesis and PCR.

The candidate should have a MS degree or a BS degree and at least 2 years of experience.

CELL BIOLOGY

We are looking for an Associate Research Scientist to carry out research to identify and characterize novel cytokines, growth factors, and their receptors. The successful candidate should have proven experience in mammalian cell biology, including maintenance of cell lines, transfection and characterization of modified cell lines, primary tissue cell culture, and bioassay development. You must also have a working knowledge of molecular biology techniques, such as subcloning, DNA sequencing, mutagenesis, and PCR.

The candidate should have a MS degree or a BS degree and at least 2 years of experience.

We offer attractive compensation commensurate with qualifications, generous benefits, and an excellent opportunity for personal growth and professional satisfaction. Resumes, including salary history and position of interest should be forwarded to Miles, Inc, Pharmaceutical Division, Dept. ELRD, 400 Morgan Lane, West Haven, CT 06516.

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National Institute of Arthritis and Musculoskeletal and Skin Diseases
National Institutes of Health

RESEARCH POSITION

A research position is available at the National Institute of Arthritis and Musculoskeletal and Skin Diseases, National Institutes of Health, Public Health Service: an investigator whose program will compliment ongoing research on the mechanisms of signal transduction in immune cells. This position is for an individual experienced in protein biochemistry, biophysics and molecular genetic techniques. Salary is $42,000 to $56,000 per year, depending on experience. Send CV, several reprints, summary of research interests, and names of three references to:

Dr. Henry Metzger
NIAMS, NIH
Building 10, Room 9N228
9000 Rockville Pike
Bethesda, MD 20892

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**ARIAD**

**PRINCIPAL SCIENTIST/GROUP LEADER**

**Thrombosis/Platelet Biochemist**

ARIAD Pharmaceuticals, a leading second-generation biopharmaceutical company, is seeking a highly motivated Principal Scientist who will take a leadership role in our thrombosis/chemostasis program. The successful candidate will have a thorough understanding of the biochemical and physiological properties of platelets, particularly as they relate to the hemostatic system, and will be responsible for designing and evaluating assay systems to characterize and assess the effects of novel molecules being developed for the treatment of vascular disease, especially thrombocytopenia. The position will interact extensively with biologists, chemists, pharmacologists and clinicians in the Company's research and development programs.

Applicants should have a Ph.D. in biochemistry or related field and 5 to 10 years of academic or industrial experience. Excellent oral and written communication skills are required. ARIAD offers an excellent salary and benefits package, incentive stock participation and the opportunity to contribute to a new and exciting area of drug discovery.

Interested individuals should send a resume and the names of three references to: ARIAD Pharmaceuticals, Job Code: JI, 26 Landsdowne Street, Cambridge, MA 02139. Please include job code on the envelope. ARIAD is an equal opportunity employer.

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**Ph.D. TRANSLANTATION IMMUNOLOGIST**

**Ph.D. TRANSLANTATION CELL BIOLOGIST**

**Ph.D. CHEMICAL OR BIOCHEMICAL ENGINEER**

**RESEARCH ASSOCIATES**

Neocrin Company is a rapidly growing leader in the field of cellular transplantation for the treatment of diabetes. We seek innovative, problem-solving, Ph.D.-level scientists and engineers with skills and experience in islet transplantation biology, islet transplantation immunology, and cell isolation and purification.

Our dynamic team is developing a biohybrid artificial pancreas. In collaboration with biomaterials scientists and engineers, the transplantation scientists will design and carry out research programs to assess and overcome the immune response of test animals to the biohybrid artificial pancreas device. The chemical engineer will develop an islet cell isolation, separation and purification process. Each position requires a Ph.D. and 5 years of postdoctoral or biotechnology/pharmaceutical industry experience.

Experienced research associates are sought in the following skill areas: pancreatic islet isolation, cell separation and purification, tissue culture, histology, gene technology, veterinary support, bioengineering, and analytical biochemistry. These positions require bachelor's or master's degrees and several years experience in one or more of the above areas, as well as computer literacy.

We offer a competitive salary and full benefits, including relocation assistance. Please mail or FAX your resume to:

**Human Resources Department**

**NEOCRIN COMPANY**

**31 Technology Drive, Suite 100**

**Irvine, CA 92718**

**FAX: (714) 727-1718**

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**Research Scientists**

An innovative new biopharmaceutical company focused on research into receptor-ligand interactions in the central nervous system and the development of new therapeutic agents resulting from this research is seeking highly motivated professionals to add to our outstanding scientific team. Current opportunities include two senior scientist positions:

- **MOLECULAR PHARMACOLOGY**
- **ELECTROPHYSIOLOGY**

We are seeking two senior scientists who are interested in working in the field of channel receptors using recombinant or electrophysiological approaches, respectively. The successful candidates will have a Ph.D. in molecular biology or electrophysiology and at least 2 years of postdoctoral experience in neuropharmacology preferred. Candidates with some industrial experience are desired.

We provide a high quality working environment, competitive salaries and fringe benefits. Send resume in strictest confidence to: Personnel Director, CoCensys, Inc., 213 Technology Drive, Irvine, CA 92718 CoCensys is an equal opportunity employer.

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**Affymax Research Institute**

Affymax Research Institute is an innovative venture dedicated to the development of new technologies which will accelerate the process of drug discovery. We offer a creative and stimulating environment for talented people and have the following positions available:

**Staff Scientist--Receptor Pharmacology**

Will identify receptor ligands from combinatorially assembled compound libraries. Duties will include biochemical characterization of recombinant cell surface receptors and development of screening strategies & assays for testing biological activities of lead compounds. Requires a Ph.D. and 2+ years of postdoctoral experience in cell surface receptor biochemistry. (Job Code R1106)

**Staff Scientist--Assay Development**

Will optimize methods of screening solid-phase compound libraries using model systems. Duties will include protein purification/characterization, covalent coupling of peptides to solid supports, solid-phase binding assays and kinetic analyses, and high sensitivity-fluorescence detection. Requires a Ph.D. in a biological or chemical discipline with at least 2 years experience in solid-phase assay development. Industrial experience in a team oriented research environment is desired. (Job Code R8112)

**Postdoctoral Fellow--Receptor Biology**

Will explore new methods of using combinatorial-screening compound libraries to discover receptor ligands. Requires a recent Ph.D. in biological sciences with experience in methods for studying cell-surface receptors. (Job Code R8130)

Affymax offers a competitive compensation package as well as many of the benefits of a world class academic environment and the potential to develop new therapeutics. To apply, please send your resume with appropriate job code to: Affymax Research Institute, Human Resources Dept., 4001 Miranda Avenue, Palo Alto, CA 94304. EOE
PROTEIN X-RAY CRYSTALLOGRAPHER

A protein crystallography laboratory is being established with intramural funding to conduct an original research program and to interact with other scientists within the NIH intramural program. Ph.D. or M.D. applicants should have a record of achievement in solving protein structures by X-ray crystallography. Salary commensurate with credentials and research experience.

Qualified and interested candidates should send curriculum vitae and names and addresses of three references to:

John E. Coligan, Ph.D.
Chief, Biological Resources Branch
NIAID, NIH
Bldg. 4, Room 413
9000 Rockville Pike
Bethesda, MD 20892
(301) 496-3213 phone
(301) 496-3284 fax

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PLANT BIOLOGY AT THE SALK INSTITUTE

The Salk Institute for Biological Studies

The Salk Institute for Biological Studies is seeking applications for a faculty position at the Assistant Professor level in the Plant Biology Laboratory. The successful candidate will be expected to establish an independent research program using genetic, molecular or biochemical approaches to fundamental problems in plant biology. The Salk Institute maintains an interactive program in cancer biology, gene expression, nucleotide and peptide chemistry, signal transduction, molecular neurobiology, plant biology and AIDS. Qualified candidates should send a curriculum vitae, a short statement of research interests and scientific goals, reprints of key publications, and the names and addresses of at least three individuals familiar with your work.

Dr. Joanne Chory and Dr. Chris Lamb
Co-Chair, Plant Biology Search Committee
Salk Institute for Biological Studies
10010 North Torrey Pines Road
La Jolla, California 92037

The Salk Institute is an Affirmative Action Employer

A DYNAMIC MISSION

At the Glaxo Inc.
Research Institute,
Our Priority is Progress.

In Research Triangle Park, NC, the inspirational Sir Paul Girolami Research Center houses the new Glaxo Inc. Research Institute. Here, professional excellence teams with scientific leadership in a unified mission: to advance the progress of drug discovery and development. The result is an environment of exceptional challenge...and unsurpassed reward.

We invite you to be part of our Research & Development team in the following opening.

TOXICOLOGIST

Drug Safety Assessment

While assisting Senior Toxicologists, the selected individual will be responsible for the planning, execution, interpretation and reporting of general toxicology studies to include the monitoring of contracted safety assessment studies. Candidates should possess a B.S. or M.S. Degree (or Ph.D. and 2 years experience) in Toxicology or a related area, with a minimum of 3-6 years relevant experience of which 2 years is experience in conducting GLP toxicology studies in the pharmaceutical or contract industries.

At Glaxo, pride in our people is reflected in an excellent salary and a flexible benefits package, as well as in such amenities as an on-site fitness center and a work setting in which you will take pride. Research Triangle Park, NC offers an academically enriched quality of life complete with a host of cultural and recreational advantages. For confidential consideration, send your resume, which must include position title and salary history, to: Human Resources Department, Job # ASC917703, Glaxo Inc., P.O. Box 13398, Research Triangle Park, NC 27709. (No Phone Calls or Agency Referrals, Please.) An Equal Opportunity Employer M/F/D/V.

Glaxo Inc.
The Time For Achievement Is Now
Research Scientist
Invertebrate Pest Control

A leading agricultural company is seeking a Ph.D. level scientist with a strong interest and research experience in crop protection research for a position in their Invertebrate Pest Control Group. Candidates should have:

- Ph.D. degree in Entomology or related discipline
- Demonstrated record of accomplishment in Hemiptera biology, with a specialization in Aphidology
- Research accomplishments in the chemical ecology of Hemiptera/host plant interactions, focusing on host plant recognition, selection and feeding by insects
- Experience in the application of electrophysiological techniques to study Hemiptera feeding behavior
- Experience in the use of chemical/physical parameters in developing models of chemical/plant interactions
- Experience in the design, execution and analysis of laboratory assays and field efficacy evaluations of developmental and experimental pesticides vs commercial standards
- Experience in evaluation of combinations of alternative control strategies for sap feeding insects; and in insect biometrics
- Strong background in plant sciences, especially Agronomy, Crop Physiology, Plant Virology and Insect Vectors of Disease
- Demonstrated practical experience of global agricultural practices, especially in Europe and Africa; and in application of knowledge to solving problems in agriculture worldwide.

The successful candidate will become a member of a multidisciplinary research team focused on the development of innovative insect control strategies. We seek an individual who is creative, has value for environmental integrity and believes that science-based solutions for crop protection and crop production will have positive impact on the quality of life.

The position is located at our mid-Atlantic facility. Application deadline is June 30, 1993. Interested candidates are invited to forward their resumes and three references to:
Dept. RS-TH, Box 28, 834 Chestnut Street, Philadelphia, PA 19107

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DIRECTOR OF CLINICAL/
HOSPITAL LABORATORIES
DEPARTMENT OF PATHOLOGY

THE UNIVERSITY OF CHICAGO
PRITZKER SCHOOL OF MEDICINE

The University of Chicago Department of Pathology has an immediate opening for a Director of Clinical/Hospital Laboratories. The 633-bed University of Chicago Hospitals record 180,000 patient days and 370,000 outpatient/ER visits per year. The responsibilities of this position are to manage and coordinate the delivery of all clinical laboratory services provided at The University of Chicago Hospitals and to promote research and teaching of Pathology fellows, residents, and medical students in laboratory medicine. The Director of Clinical/Hospital Laboratories will report directly to the Chairman of the Department of Pathology.

Candidates must be academically qualified for this faculty position which places strong emphasis on teaching, scholarly activity evidenced by appropriate publications, be nationally recognized for their work, and have evidence of current and ongoing investigation in an area of expertise. Appropriate prior administrative experience including an interest in laboratory utilization is essential.

Applicant must be certified by the American Board of Pathology in Clinical or Anatomic Pathology, and preferably have certification of special competence and proven expertise in a subspecialty.

Salary will be competitive and negotiable. Excellent benefit package included. Applicants should send their curriculum vitae, bibliography, and names of 3 references to:

Godfrey S. Getz, M.D., Ph.D.
Professor and Chairman
THE UNIVERSITY OF CHICAGO
Department of Pathology, MC 3083, Rm. S-329
5841 S. Maryland Ave.
Chicago, IL 60637

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IRCM
Institut de recherches cliniques de Montréal
Clinical Research Institute of Montreal

The Institut de recherches cliniques de Montréal (IRCM), one of the largest biomedical research institutions in Canada, is seeking some American post-doctoral fellows (M.D. or Ph.D.) wishing to work in Montreal in a very stimulating environment. The applicants will be expected to work in the following fields: AIDS, atherosclerosis, bioengineering, bioethics, cancer, endocrinology, gene expression, hypertension, immunology, neurosciences (pain, memory, brain chemistry) and retrovirology.

Applications with curriculum vitae and three references should be forwarded to Dr. Michel Chrétien, Scientific Director, Institut de recherches cliniques de Montréal, 110 Pine Avenue West, Montreal, Canada H2W 1R7.
**CELL AND MOLECULAR BIOLOGY**

**Postdoctoral Positions**

Postdoctoral positions are available at the Worcester Foundation for Experimental Biology to study cellular and molecular aspects of development. These positions are supported by an NIH Training Grant and individual investigator awards. The faculty and their research interests are:

- **F. Rob Jackson**: Molecular genetic analysis of circadian rhythms and other neural functions in *Drosophila*.
- **Daniel Kilpatrick**: Cell-specific transcriptional regulation during differentiation of spermatogenic and somatic cells.
- **Elizabeth Luna**: Structure and regulation of cytoskeleton-membrane attachment.
- **Clare O’Connor**: Regulation of protein stability during gametogenesis.
- **Thoru Pederson**: Molecular and cell biology of gene expression, with emphasis on RNA-protein interactions and RNA processing.
- **Joel Richter**: Gene expression during early *Xenopus* development.
- **Alonzo Ross**: Nerve growth factor receptors and differentiation of neural tumors.

Send curriculum vitae and names of references to the faculty member(s) of interest, c/o Personnel Office, Worcester Foundation for Experimental Biology, 222 Maple Avenue, Shrewsbury, MA 01545, USA.

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**RESEARCH SCIENTIST**

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**NATIONAL INSTITUTE ON AGING**

**STAFF FELLOWSHIP**

**ON HUMAN MAGNETIC RESONANCE SPECTROSCOPY AND IMAGING**

Staff fellowships are available beginning July, 1993 for studying human brain function in relation to aging and such disorders as Alzheimer’s disease and multiple infarct and other vascular dementias using in vivo nuclear magnetic resonance spectroscopy and imaging techniques. Data generated can be combined with that obtained from positron emission tomography, neuropsychological testing, and neuropharmacological intervention. Responsibilities include writing and conducting research protocols, and limited clinical care on an 8-bed clinical research unit. MD degree and medical license (ECFMG if foreign trained) required. Fellows work in the Laboratory of Neurosciences (S.J. Rapoport, M.D., Chief), Brain Aging and Dementia Section (M.B. Schapiro, M.D., Chief), National Institute on Aging, National Institutes of Health, Public Health Service, Bethesda, MD. Starting salary commensurate with training and experience. For further information, contact:

Dr. B. Horwitz, Bldg. 10, Rm 6C-414
Laboratory of Neurosciences
National Institute on Aging
9000 Rockville Pike, Bethesda, MD 20892.
Tel. 301-496-4754; FAX: 301-402-0595;
Email: horwitz@alw.nih.gov.

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SENIOR INVESTIGATOR

The Laboratory of Molecular Cardiology, National Heart, Lung, and Blood Institute, invites applications for a position as post-doctoral, tenure-track position (Salary range: $40,000 to $50,000). The overall theme of the laboratory is understanding the molecular basis of nonmuscle and smooth muscle myosin function.

The applicant must hold a Ph.D. and/or M.D. degree and have at least four (4) years of relevant postdoctoral experience in the identification and characterization of drosophila and murine homeobox genes and gene products with an interest in studying the role of these genes in neuromuscular development. U.S. CITIZENSHIP IS REQUIRED. Send C.V. and three (3) letters of recommendation to:

Dr. Robert S. Adelstein
Laboratory of Molecular Cardiology
Building 10, Room 8N202
National Institutes of Health
9000 Rockville Pike
Bethesda, Maryland 20892

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PHARMACEUTICAL RESEARCH

ZENECA Pharmaceuticals Group (formerly ICI Pharmaceuticals Group), dedicated to the challenge of discovering and developing important new therapeutic agents, has openings in the CNS and Pulmonary Pharmacology drug discovery research groups at our suburban Wilmington, Delaware location.

CNS Pharmacology

The successful candidates will participate in molecular biological studies as part of an integrated team of biologists who interact closely with medicinal and molecular modeling chemists. Both positions require expertise in construction/expression of vectors for transient and stable mammalian cell expression and experience with mutagenesis techniques. Expression cloning of low abundance mRNA and genomic cloning is required.

SENIOR RESEARCH PHARMACOLOGIST — We seek a Pharmacologist to participate in and supervise molecular biological approaches, including cloning of drug therapy targets and their genetic manipulation. The successful candidate should have a PhD in molecular biology, molecular genetics, pharmacology, or biochemistry, with at least 2 years' postgraduate experience. Broad knowledge and experience in PCR are required.

SENIOR PHARMACOLOGIST — BS/MS in molecular biology, molecular genetics, pharmacology, or biochemistry, with at least 2 years' relevant experience in one or more areas of PCR is required.

Pulmonary Pharmacology

RESEARCH PHARMACOLOGIST — The successful candidate will interact in a team environment to establish and biologically characterize chronic in vivo models of pulmonary hypertension. A PhD in pulmonary physiology or pharmacology with 1-3 years' postdoctoral experience in the area of pulmonary vascular smooth regulation is required. Background in the principles of pharmacology also required. Good communication skills and experience with in vitro and in vivo techniques are essential. Understanding of the fundamentals of computers is an asset.

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Interested candidates should submit c.v. to: Melanie Lewis, ZENECA Pharmaceuticals Group, 1800 Concord Pike, Wilmington, DE 19897.

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Senior Scientist
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We anticipate applicants to be either from industry or to have the position of assistant/associate professor in academia. However, postdoctoral candidates with outstanding track records are also encouraged to apply.

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FINITE DIFFERENCE EQUATIONS WITH EXPONENTIAL BASIS Functions of Time

M. S. Flaherty and R. D. Durbin

ABSTRACT

The finite-difference approach is applied to the solution of the heat equation, the wave equation, and the Schrödinger equation with exponentially decaying basis functions. The resulting systems of algebraic equations are diagonalized by a similarity transformation. The reduction of the original problem to a set of scalar equations results in solution procedures that are both direct and iterative. The use of exponential functions as basis functions provides a mechanism for the absorption and release of energy at specific points in the computational grid. A method for the accurate and efficient evaluation of the integrals occurring in the boundary conditions is also presented.

The results indicate that these procedures are effective for solving problems with localized features, such as those arising in the study of wave propagation, which are not easily handled by conventional finite-difference techniques. This approach may also be applicable to the solution of other partial differential equations, where exponential basis functions are appropriate for representing localized phenomena.
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Format of Abstracts: Abstracts not following the format required will be returned. The text of the abstract must fit within a 7½ square area in the center of an 8½” x 11” sheet of white paper. Since the text will be electronically scanned, use a letter-quality (not dot matrix) printer. Use black ink for all hand lettering. Do not double space text, nor draw a box around the abstract. At least two lines above the text, designate the name of the concurrent session to which the abstract relates and indicate whether you wish your abstract to be considered for oral presentation. At least two lines below the text, list the presenter’s name, address, phone, and fax numbers.

Acceptance: Applicants will be notified by July 1993 regarding the status of their abstracts. If your abstract is accepted, you will be assigned to a poster session and provided with a 4’ x 4’ bulletin board on which to display graphics and text. Posters will be displayed in the Exhibit Hall during the entire meeting, and presenters will be assigned two hours at their posters. Accepted abstracts will be published in the program book, which will be distributed to all registrants. Abstracts received after June 15, 1993 will not be published in the program book but may be accepted for display.

Mailing Instructions: Faxes are unacceptable. Mail the abstract flat (do not fold or bend). Send original plus four photocopies to: Science Innovation ’93 Contributed Papers, AAAS Meetings, 1333 H St, NW, Washington, DC 20005.

CONCURRENT DISCUSSIONS

ORAL OR POSTER PRESENTATION

- DNA Amplification
- Gene Sequencing Tools
- Fluorescent In Situ Hybridization and Nonisotopic Detection
- Screening
- Peptides and Combinatorial Libraries
- NMR and Crystallographic Determination of Protein Structure
- Antibody Catalysis
- Non-invasive Diagnostics
- Imaging
- DNA Diagnostics
- Oligonucleotide Synthesis and Antisense Pharmaceuticals
- Drug Design
- Drug Targeting and Liposomes
- Clinical Immunology, Immunosuppression and Vaccines
- Cytokines and Cell Growth Factors
- Tumor Immunogenicity and Markers
- Artificial Blood
- AIDS Research and Animal Models
- Chemical Communication
- Plant Development
- New Microscopy
- Laser-selective Chemistry
- Biosensors
- Thinking Machines and Neural Networks

CONCURRENT PLENARIES

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- Solid Phase Synthesis
- Vector Development for Gene Therapy
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- Patent Law
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*The use of polymorphic simple sequence repeats is covered by U.S. Patent 5,075,217 assigned to The Marchfield Clinic. The license for primers, reagents and kits has been assigned to Research Genetics.