

HUMAN FRONTIER SCIENCE PROGRAM (HFSP) Bureaux Europe, 20 place des Halles, 67080 STRASBOURG Cedex, FRANCE Tel: 33 (0)3 88 21 51 21 Fax: 33 (0)3 88 32 88 97 E-mail: info@hfsp.org Web site: http://www.hfsp.org

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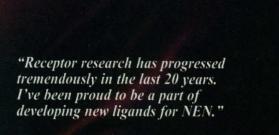
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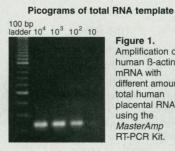
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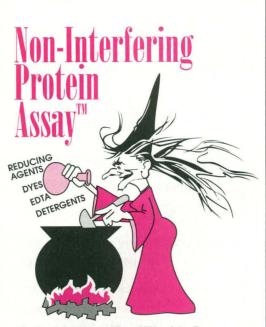
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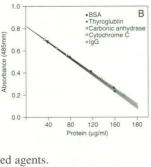
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(continued from page 929)



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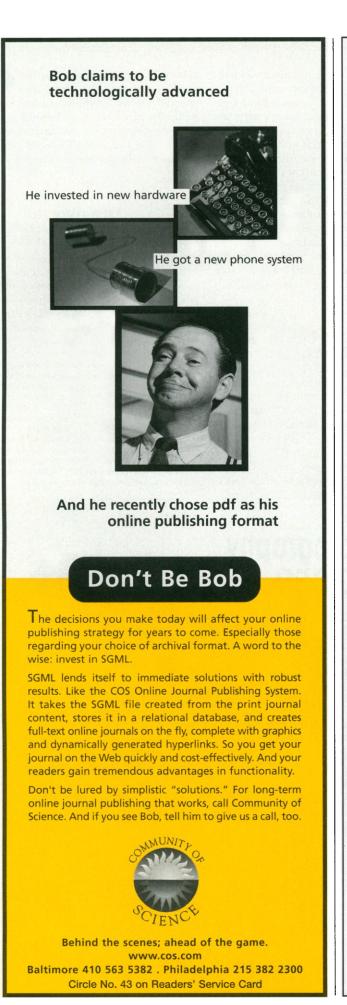
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Mail Nominations to:

McGovern Award Lecture, AAAS Meetings Office, 1200 New York Avenue, NW, Washington, DC 20005

Complete nominations, as described above, must be received by Monday, June 15, 1998.



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Interested applicants should send a copy of their curriculum vitae, a personal statement of interest, and the names and contact information of five references to: Dr. Donald P. Waller, Chair of the Search Committee, Department of Pharmaceutics and Pharmacodynamics (m/c 865), College of Pharmacy, University of Illinois at Chicago, 833 South Wood Street, Chicago, IL 60612. Applications will be accepted until August 15, 1998, or until the position has been filled. The University of Illinois at Chicago is an Equal Opportunity/Affirmative Action Employer.

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The Toxicology Research Laboratories has a position available for an individual trained and experienced in toxicology, pharmacology, or related sciences. A Ph.D. degree and at least 3-5 years of drug development experience in either an industrial or academic environment are required for this position. The successful applicant will provide key scientific leadership of preclinical toxicology planning processes, will serve as Study Director, and will represent toxicology in discussions with regulatory agencies.

Toxicology Project Associate-BS, MS

The Toxicology Research Laboratory has two Toxicology Project Associate positions available for individuals trained and experienced in toxicology, pharmacology or related sciences. A BS or MS degree with 3-5 years postgraduate experience in either an industrial or academic environment are required for this position.

The successful applicant will directly support activities related to the timely development and execution of preclinical studies that support clinical trials and registration of pharmaceutical products. Desirable candidates will possess a working knowledge of general Toxicology study and Good Laboratory Practice procedures. Candidates must demonstrate a high level of initiative and commitment as well as excellent organizational, interpersonal, and communication skills.

Toxicologist, Developmental Toxicology/ Behavioral and Teratology - BS, MS

The principal responsibility of the Toxicologist is to coordinate and supervise behavioral, teratology, and/or reproduction studies in rodent and non-rodent species to support the registration of pharmaceutical products. This responsibility includes supervising and evaluating the performance of a team of technicians; ensuring compliance of studies and reports with GLPs, SOPs, and established guidelines; and analyzing, interpreting, documenting, and reporting study results. This position requires developmental toxicology, neuroscience, experimental psychology, anatomy, or related background. Supervisory and lab animal experience would be valuable. A minimum of a BS/BA degree in a science-related discipline.

Senior Teratologist, Developmental Toxicology - Ph.D.

The principal responsibility of the Senior Teratologist will be to identify preclinical developmental toxicology plans and to provide scientific direction for the Teratology Laboratory. The Senior Teratologist will serve as Study Director and will represent Toxicology in discussions with regulatory agencies. The position requires training and experience in developmental toxicology. The applicant should have a Ph.D. degree with expertise in anatomy.

Biochemical Toxicologist - BS, MS

A position is available in Investigative Toxicology for a scientist with at least 3 years of industry or academic experience. The focus of the Biochemical Toxicology laboratory is to support lead optimization of novel chemical entities with particular emphasis on projects in cerebrovascular disease including stroke and atherosclerosis. The laboratory does not conduct studies for regulatory submission but instead partners closely with Discovery research scientists to identify compounds suitable for development. As such, this position requires the flexibility to conduct research on multiple projects across therapeutic areas.

The ideal candidate should be well versed in all aspects of cell based research, general pharmacology and biochemistry. Experience with molecular techniques including isolation of DNA, RNA and Northern blotting is required and experience in programmed cell death would be of great benefit. Previous experience with flow cytometry as applied to analysis of apoptosis is a plus.

Senior Clinical Veterinarian

Eli Lilly and Company is seeking a Veterinarian to provide clinical support and consultation for our Toxicology Research Laboratories. The successful candidate must be experienced in all aspects of laboratory animal medicine including clinical care; surgical support; development of animal models; environmental enrichment; compliance with applicable laws and regulations; and personnel management.

The ideal candidate must hold a degree in veterinary medicine, and must be ACLAM and/or ACVIM board eligible or certified. Experience in the pharmaceutical industry and managerial experience are both desirable.

Research Associate, Endocrinology/Physiology -BS, MS

The Neuroendocrinology Laboratory in the Toxicology Division has a position available for an individual trained in endocrinology, neuroscience or related fields. The focus of this laboratory is the safety assessment of novel chemical entities in the early phases of discovery and in the latter phases of pharmaceutical development. The primary responsibility of the successful candidate will be the conduct of endocrinology studies in mice and rats, evaluation of endocrine based animal models, small animal surgery, ELISA and radioimmunoassays, data analysis and report writing for regulatory submissions. The position requires the flexibility to conduct research on multiple projects. A BS or MS in biological sciences or neuroscience with related laboratory experience is preferred.

offers excellent salaries and competitive benefits. Please send resume with cover letter, **indicating specific title** of the position of interest to Human Resources at:

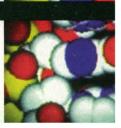
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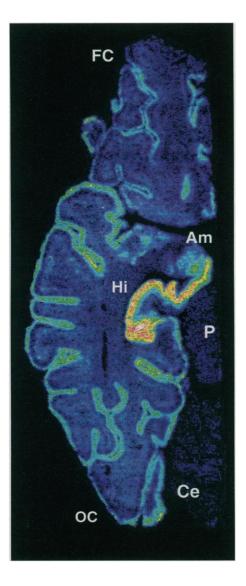


Challenging Opportunities in CNS Drug Discovery An international pharmaceutical company in a rapid phase of expansion, Astra's operations focus on research, production, and marketing of innovative pharmaceuticals through subsidiary companies in more than 40 countries. Working through agents and licensees, Astra ensures global product distribution. The company employs approximately 22,000 people and generated sales in 1997 that totaled approximately \$ 5.65 billion worldwide.

Presently, Astra has the largest selling prescription pharmaceutical in the world, the antiulcer drug Omeprazole.

Astra Arcus, a division of The Astra Group, is braced to conquer medicine's next frontier: the Central Nervous System. Our leading-edge research in Drug Discovery & Development for Stroke, Alzheimer's Disease, Parkinson's Disease, Multiple Sclerosis, Schizophrenia, and Mood and Anxiety disorders is generating remarkable opportunities for highly qualified and committed senior scientists. To further strengthen our leadership position in this crucial area of research, we are building a Boston based, state-ofthe-art research center to be completed in 2001 that will support the efforts of 250 scientists working within Molecular Sciences, Chemistry, Cell Biology, Lead Discovery and Pharmacology. Our staff will have close interaction with premier academic centers and entrepreneurial research firms, ensuring communication with other leading professionals. In the interim, we are moving the center of our operations to the Massachusetts Biotechnical Park in Worcester, MA.

Astra Arcus is dedicated to building an outstanding drug discovery team that will continue to push the barriers in CNS research. This is an important chapter in our history and an optimal time to realize outstanding opportunities. We have the best resources, a professional team, and a challenge that's worthy of all our dedicated effort. Conquer the next frontier in medicine. Join us.



We offer a highly competitive compensation/benefits plan and managed relocation assistance. Please forward your CV to: Astra Arcus USA, Inc., Human Resources, P.O. Box 20890, Rochester, NY 14602; E-mail: jobs@arcus.us.astra.com An Equal Opportunity Employer.

PHARMACOLOGY

Department Head

In this high profile position, the successful candidate will provide leadership and management to a multidisciplinary team of 40 highly qualified individuals in the areas of behavioral pharmacology, neuroprotection, neurochemistry, neuroanatomy and general pharmacology. You will be responsible for management and coordination of resources; increasing the flexibility of the unit to changing priorities; improving management of external collaborations and achieving a higher level of scientific quality by supervision and integration of in vivo neuroscience research community; and ensure state-of-the-art scientific standards and maintain an awareness of new research technologies and methodologies.

To qualify, you must have a Ph. D. and a minimum of 5 years' research experience in neurobiology relating to psychiatry and neurology, as well as a broad knowledge of molecular or integrative pharmacology. Demonstrated understanding of the drug discovery process; the ability to provide input on novel approaches to drug discovery; and the ability to manage and allocate resources in a line project system are required. Excellent organizational, interpersonal and networking skills, and an established international reputation, supported by a strong record of publication in refereed journals, are also required.

LEAD DISCOVERY

Department Head

The successful candidate will build a high quality Lead Discovery unit focusing on targets relevant to acute and chronic neurodegenerative diseases and psychiatric disorders. In addition to providing leadership and playing a key role in the early discovery of new chemical leads, you will incorporate cutting-edge technologies for the rapid study of novel targets, ensure timelines, budgets and quality targets are met; and manage resources in accordance with Astra Arcus research strategy. Other responsibilities include increasing the flexibility of the unit in response to changing priorities; and providing support to achieve a higher level of scientific quality.

The qualified candidate must have a Ph.D. and a minimum of 5 years' research experience in Lead Discovery. A background in biochemical pharmacology and in vitro pharmacology, molecular biology, and assay development is desirable. An established international research reputation; a thorough understanding of the drug discovery process; and excellent organizational, interpersonal and networking skills are also required.

CELL BIOLOGY

Department Head

Focusing on programs in acute art chronic neurodegenerative diseases and psychiatric disorders, the successful candidate will utilize their proven leadership and management abilities to recruit, develop and motivate a team of 20 highly qualified individuals in our Cellular Biology unit. In accordance with Astra Arcus strategy, you will lead the unit resources and operational activities and increase the unit's flexibility to changing priorities. You will also manage external collaborations and establish an excellent academic network in cellular neurobiology; maintain state-of-the-art scientific standards and an awareness of new research technologies and developments; and ensure that time-lines, budgets, and quality targets are met.

The qualified candidate will have a Ph. D. and a minimum of 5 years' research experience in Cellular Neurobiology with knowledge of neurodegenerative diseases. A strong background in intra/inter cellular process and electrophysiology, and a thorough understanding of the drug discovery process are required. Excellent organizational, communication skills and interpersonal skills; the ability to motivate a cross-cultural, multidisciplinary research team; and an established international research reputation, supported by a record of publication in refereed journals, are also required.



To learn more about Astra, visit us at www.astra.com

TODAY'S OPPORTUNITIES LEAD TO TOMORROW'S BREAKTHROUGHS

Pharmacopeia is a biopharmaceutical-drug discovery company that applies innovative technologies to chemical synthesis of libraries of small molecules and to high throughput screening. Our goal is to identify small molecules from these processes and to characterize them in the drug optimization process. Join our dynamic drug discovery organization and apply your abilities to the development of small molecule pharmaceuticals for the 21st Century.

Pharmacopeia is looking for talented and highly-motivated individuals for the following exciting opportunities in our expanding company.

RESEARCH SCIENTIST

We are seeking a molecular pharmacologist to join our G protein coupled receptor research team in pursuit of novel therapeutics at neuropeptide receptors. Present emphasis is on **GALANIN** and **MELANOCORTIN RECEPTORS**. This is an outstanding opportunity to be part of an innovative and energetic research department that uses state-of-the-art combinatorial chemistry, molecular biology, molecular modeling, and high-throughput screening to discover and develop small molecule leads at G protein- coupled receptors.

The successful candidate will have experience in **GALANIN** or **MELANOCORTIN RECEPTOR** pharmacology. You will focus on designing and conducting studies with small molecule leads that target these receptors. Your studies will 1) characterize the pharmacological profile of these small molecule leads, 2) determine their potential as drug optimization candidates and 3) elucidate the biology of these receptors. You will need a Ph.D and 1-3 years of postdoctoral experience in G protein-coupled receptor research including binding, signal transduction, and cell biology. Excellent communication skills and a team approach to problem-solving are a must.

RESEARCH SCIENTIST

The successful candidate for our molecular biology research team will be proficient in innovative molecular biology techniques and well versed in established tissue culture methodologies. You will need a Ph.D and 1-3 years post-doctoral experience or a Masters degree with at least 5 years of industrial experience. You will interact extensively with a wide variety of researchers from other departments and serve as a key molecular biology resource. Exceptional organizational and interpersonal skills required.

We are located in Princeton, NJ, an area known for its excellent cultural environment. We offer a highly competitive compensation and benefits package including stock options, matching 401(k) plan and tuition reimbursement. Qualified individuals should send a cover letter and resume to:

Pharmacopeia, Attn: Human Resources Job Code BMP/MB 101 College Road East Princeton, NJ 08540 Fax: 609-452-2434

ΡΗΑΡΜΑΟΡΕΙΑ

EOE M/F/D/V

have the ability the future.

This is your opportunity to join Wyeth-Ayerst Research, a global leader in pharmaceutical research and development and a major division of a Fortune 100 American H

of a Fortune 100 American Home Products Corporation. We are seeking scientists for the following positions:

Postdoctoral Positions

Drug Safety and Metabolism Princeton, New Jersey

Requirements include a Ph.D. in Molecular Biology, Biology or related discipline. Experience with Northern and Southern blotting, PCR, RT-PCR and Western blotting techniques, as well as searching the genetic database for sequencing, is required. Experience with gene splicing or construction of plasmid libraries would be a plus. **Position #OPSCI-3095**

Unit Leader

DSM Bioanalytical Department Pearl River, New York

We are seeking a scientist with a Ph.D. in Biology, Biochemistry or related discipline and 8 years experience, (5+ years experience in the pharmaceutical or contract research industry). In addition, the candidate should possess strong management skills. The selected candidate will direct the development and validation of new bioanalytical immunoassays and supervise staff who perform routine assays of biological samples using validated methods. Candidate will also evaluate bioanalytical results to ensure compliance with GLP/SOP regulations and prepare all necessary documentation. **Position** #OPSCI-3136

Wyeth-Ayerst offers a competitive salary and benefits package. Please send your resume with salary requirements and position number to: Wyeth-Ayerst Research, Human Resources Dept., Position #, P.O. Box 7886, Philadelphia, PA 19101-7886, or fax to (610) 989-4854. E-mail: jobs@RAMAIL1.wyeth.com (ASCII format, no attachments, subject: resume). Principals Only. Equal Opportunity Employer, M/F/D/V.



KUWAIT UNIVERSITY FACULTY OF PHARMACY DEPARTMENT CHAIRS (FULL-TIME)

Applications are invited from qualified candidates for the following newly created posts:

1) Chair, Department of Pharmaceutics:

Applicants should have administrative experience, an established research program, and teaching experience in physical pharmacy, pharmaceutics, or biopharmaceutics.

2) Chair, Department of Pharmacy Practice:

Applicants should have administrative experience, an established record of developing excellent teaching programs in clinical pharmacy and pharmacy services, and an established practice-related research program.

Appointments will be made at the rank of Full Professor. Kuwait University regulations require that applicants hold a Ph.D. to be eligible for appointment at this rank.

Appointees will be expected to make a significant contribution to course development and teaching at both the undergraduate and graduate levels, to provide strong academic leadership, and to establish active collaborative research programs within the health sciences faculties.

Rank and salary will be commensurate with experience and qualifications. Appointments are subject to contract. Kuwait University offers:

- 12 months' salary in the range US\$85,000–\$95,000 dependent on ten years of experience (there are no taxes in Kuwait)
- 2 months' paid annual leave
- Other benefits include annual conference attendance, furniture allowance, annual air tickets for appointee, spouse and 3 children up to the age 18, free health care, free tuition for dependent children under the age of 18 up to high school in accordance with Kuwait University regulations
- End-of-service gratuity equal to one month of basic salary for each year of service
- Financial support for research through a competitive awards system
- Excellent academic environment in a newly established faculty

The posts are available from January 1, 1999, or as soon as possible thereafter. Letters of application accompanied by a curriculum vitae and the names, addresses, telephone and fax numbers, and e-mail addresses of three referees should be submitted to:

Dr. David Biggs Dean, Faculty of Pharmacy Health Sciences Centre, Kuwait University P.O. Box 24923, Safat 13110, Kuwait E-mail: biggs@hsc.univ.edu.kw

Closing date for applications: June 30, 1998.

WE'VE ISOLATED REMARKABLE OPPORTUNITIES

At SyStemix, our isolation of the hematopoietic stem cell was a first. This remarkable accomplishment reflects our ability to bring together an experienced team of professionals to achieve our mission. We believe our continued success as a leader in advanced cell and cell-based gene therapies for cancer, autoimmune and genetic diseases will be based on the people we bring together today.

Postdoctoral Researchers

We seek postdoctoral researchers for a period of 2 years in the following areas: **HIV Gene Therapy** to study homologous recombination in hematopoietic cells, and **Cell Therapy** to study intracellular signaling in hematopoietic stem cells. Both positions require a recent PhD. The HIV Gene Therapy position requires a strong background in homologous recombination techniques and an interest in improving methods. A background in hematopoietic stem cell biology and hematopoietic stem cell assays is a plus. The Cell Therapy (intracellular signaling) position requires experience in cell culture techniques and a strong background in signaling paradigms and associated biochemical/ molecular techniques. Applicants should include a brief statement of research interests and 3 letters of recommendation with current CV or resume. Refer to Job #97RPD.

Research Scientist I, II or III (HIV Gene Therapy Research) Requires MD/PhD in Immunology or Hernatology and up to 5 years postgraduate research with expertise in hernatopoietic stem cell biology and assays and animal models for bone marrow transplantation. Familiarity with gene transfer into hernatopoietic cells and retroviral vectors, plus experience with basic immunology techniques and autoimmune disease models desirable. Refer to Job #981003.

Research Scientist II or III (HIV Gene Therapy Research) Requires PhD in Molecular Biology, Biochemistry or Immunology with 2+ years postgraduate research. Expertise in basic molecular biology including mammalian tissue culture techniques, nucleic acid and FACS analysis, and HIV infection assays, and willingness to work in BL3 laboratory also are essential. Refer to Job #981018.

Research Scientist II or III (Allo HSC Transplantation) Requires MD/PhD in Biology or Immunology with 2+ years applicable experience in the pharmaceutical/biotechnology industry. Immunology/hematology background, including mammalian tissue culture techniques, cellular transplantation in mice, and FACS analysis also are needed. Refer to Job #981025.

Manager, Cell Culture Manufacturing & Development

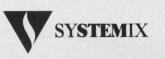
Requires MS in Biochemistry, Cell Biology or Chemical Engineering (PhD preferred) and 8+ years biopharmaceutical industry experience. Managerial background (3+ years) in a cell culture manufacturing group producing a commercial cGMP product with experience in chromatography, protein purification, process validation and project/budget management is essential. Refer to Job #964101.

Development Scientist I or II (Reagent Process Development) Requires PhD in Biochemistry, Pharmaceutical Science or other relevant scientific discipline as well as 3+ years applicable experience in the pharmaceutical/biotechnology industry (or MS degree with 8 years as a Technical Scientist). Knowledge of protein chemistry, including analytical methods for protein characterization, a must. Refer to Job #981024.

Development Scientist I or II (HSC-IP Product Development) Requires PhD in Hematology, Immunology or related discipline with 3+ years applicable experience. Technical expertise in flow cytometry, hematopoietic cell culture and cell isolations systems needed. Refer to Job #981013.

As a wholly owned subsidiary of Novartis, SyStemix is in a unique position to leverage the resources of one of the world's largest pharmaceutical companies while retaining the character and culture as a fast, flexible and focused biotechnology company. To apply, mail or fax your resume, indicating corresponding Job#, to: SyStemix, Inc., Human Resources, 3155 Porter Drive, Palo Alto, CA 94304; FAX (650) 813-4121; email: hr@stem.com. EOE.

Visit our website at www.stem.com for complete details on these and other opportunities available.





DEPARTMENT OF BIOCHEMISTRY POSTDOCTORAL FELLOWSHIPS

The Biochemistry Department offers a highly interactive environment for postdoctoral research with a focus on the molecular and cellular biology of signal transduction. The research programs within the Department offer recent Ph.D. or M.D. graduates comprehensive training in a large variety of contemporary molecular and biochemical techniques. Laboratory facilities are housed in a new 220,000 sq. ft. research facility. SJCRH offers competitive salaries and fringe benefits. Current research programs within the Department include:

Paul Brindle: The role of transcriptional coactivators in hematopoiesis.

John Cleveland: Regulation of apoptosis in hematopoiesis and leukemia

James N. Ihle: Mechanisms of hematopoietic stem cell growth regulation, differentiation and transformation.

Paul Ney: Transcriptional regulation of globin gene expression and the mechanism of Friend virus induced erythroblastosis.

Suzanne Jackowski: Cell cycle regulation of membrane phospholipid biosynthesis.

Charles Rock: Phospholipid metabolism and growth factor signalling.

Brian Sorrentino: Retrovirally mediated transfer of drug resistance genes to hematopoietic stem cells.

Gerard Zambetti: Function of wild-type and mutant p53 in tumor suppression, oncogenesis, and the cell cycle.

Applicants should submit a brief statement of research interests, curriculum vitae and the names of three references to:

Biochemistry Departmental Fellowships The Department of Biochemistry St. Jude Children's Research Hospital 332 North Lauderdale Memphis, TN 38101 http://www.stjude.org/education/ default.htm

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MEETINGS

UCSF-MDI Meeting "Mechanisms of Tumor Growth and Invasion Mediated by Proteolysis"

University of California San Francisco Laurel Heights Conference Center San Francisco, California November 5-6, 1998

The Molecular Design Institute of the University of California San Francisco announces a two day meeting organized by Professors Marc Shuman, Charles Craik, James McKerrow, and Zena Werb to address the biological role of proteases in tumor growth and invasion and opportunities for protease inhibitor drugs. Experts at the interface of chemistry and cancer biology, including computational experts who seek basic understanding of the biological role of proteases in support of new drug discovery are invited to attend.

Keynote Speaker

Alfred L. Goldberg Harvard Medical School "Proteasomes in Protein Degradation: From Immune Surveillance to Cancer"

Speakers

Roy A. Black, Immunex Corporation John Cheronis, Cortech, Inc. Jerry Collins, FDA Lisa Coussens, UC San Francisco Charles Craik, UC San Francisco Jon Ellman, UC Berkeley Frank McCormick, UC San Francisco Jim McKerrow, UC San Francisco Brian Metcalf, SmithKline Beecham Marc Shuman, UC San Francisco Bonnie Sloane, Wayne State University Nancy Thornberry, Merck Zena Werb, UC San Francisco

Registration

Registration is US\$750 (corporate) or US\$375 (academic). To register contact Melina O'Grady (fax: 415-502-7457; email: ogrady@cgl.ucsf.edu) or visit the UCSF-MDI web site http://mdi.ucsf.edu. Conference fees are waived for Corporate Scholars Program members and affiliates.



UNIVERSITY OF CALIFORNIA SAN FRANCISCO MOLECULAR DESIGN INSTITUTE Box 0446, Room U-64 San Francisco, CA 94143 http://mdi.ucsf.edu Where RUSL SU INNOVATION

Innovation is priority one at Millennium. Always has been. Always will be.

It's helped us create breakthrough therapies for major under-served diseases, such as obesity, type II diabetes, cardiovascular diseases, cancer, central nervous systems disorders, and many more. Today, the innovation and excitement continue throughout the Millennium family of companies, as well as in Cereon Genomics L.L.C.our unique partnership with Monsanto for the development of genomics-based plant and agricultural products.

Given the challenges still to be faced ... and the breakthroughs still to be discovered in biotechnology, we know that there is much more innovation, excitement, growth, and success to come. That's why there's no better time than now to bring your spirit of innovation to a company that reflects it, respects it, and rewards it.

Associate Scientist - Gene Expression

Responsible for gene expression technology development for high-throughput protein production, including hands-on evaluation, selection, and implementation of gene expression systems. Requires Ph.D., several years of industry experience with a demonstrated track record in gene expression efforts, outstanding skills in molecular and cell biology, plus demonstrated expertise in DNA vector design, construction, and manipulation. Candidates should be interested in modifying and/or developing novel expression systems directed towards state-of-the-art operation. Experience in the high-level expression of proteins in multiple systems, including bacterial, yeast, and mammalian is desirable.

Scientist - High-Throughput Screening

We seek an experienced professional with the ability to coordinate and run multiple assays simultaneously, to be responsible for the critical interface of screening with chemistry. You will also be involved in all post-screen assay support. You must have a Ph.D. with several years of industry experience, or an MS with 7 years of experience. A broad knowledge of procaryotic and eucaryotic systems, plus expertise in biochemical assays, mammalian, cell culture, microbial systems and the communication of data to support assay isolation and characterizations of lead structures are all essential. Experience with genetic technologies such as reporter genes, phage display, and assay development is a plus.

Scientist - Mammalian Cell-Based Screening

You will be responsible for last stage development and automation of high-throughput cell-based assays, primarily using mammalian cell lines. You will also ensure the successful implementation and completion of assays supporting multiple therapeutic areas. To qualify, you must have a Ph.D. in Cell Biology, Molecular Biology, or related field, plus Post-Doctoral experience. 2 - 5 years of industrial experience in Biotech/Pharma as a Scientist in screening/assay development or related area is highly desirable.

Scientist - Fungal Molecular Biology

We seek a Ph.D.-level scientist with several years of experience in Fungal Molecular Biology to participate in our search for broad spectral antifungal agents against human pathogens. To qualify, you must be an expert in the genetics of filamentous fungi, plus possess strong management experience and proven leadership skills. Experience in yeast genetics preferred.

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Please fax, e-mail or forward resumes, indicating position of interest and source code, to: Millennium Pharmaceuticals, Inc. Source Code: SC598, Resume Processing Center, PO Box 798 Burlington, MA 01803

Fax: 1-800-370-6925 Email: Millennium@webhire.com (Paste/type in resume first with cover letter at end. No file attachments.) ALL SUBMISSIONS MUST INCLUDE SOURCE CODE: SC598



Postdoctoral Training in Arteriosclerosis Research

Columbia University has positions available in an NIH-supported, multidisciplinary postdoctoral training program in arteriosclerosis research. This program supports individuals with M.D. or Ph.D. degrees for a period of one to three years. Participating laboratories include components of the Columbia University Specialized Center of Research (SCOR) in Arteriosclerosis as well as the components of a Program Project in Diabetes, Lipoproteins, and Accelerated Vascular Disease. The program includes laboratories from the Departments of Medicine, Pediatrics, Physiology, and Cell Biology. Areas of investigation are directed at major

questions in lipid and lipoprotein metabolism, hyperlipidemia, diabetes, coronary artery disease, atherogenesis, vascular biology, and retinoid metabolism. Induced mutant mouse models of disease are central to the work of several laboratories; cell and molecular biologic approaches are also actively used. Additionally, there are opportunities for clinical investigation. Research and training efforts are closely coordinated by integrating themes and a variety of scientific applications. Applicants must be citizens or permanent residents of the United States.

The trainees work under the direction of faculty members in one of several areas.

Drs. Henry N. Ginsberg, Lars Berglund, Charles Francis, Li-Shin Huang, Neil Shachter, and Rajasekhar Ramakrishnan: Assembly and secretion of lipoproteins from the liver; plasma triglyceride-rich lipoprotein metabolism in diabetes mellitus; lipoprotein (a) and atherogenesis.

Drs. William Blaner and David Talmage: Metabolism and molecular biology of retinoids and retinoid-binding proteins.

Dr. Paul Gannon: Regulation of nitric oxide metabolism and the role of nitric oxide in atherogenesis.

Drs. Richard Deckelbaum and Stephen Sturley: Role of apoE and ACAT in regulation of cell cholesterol metabolism; yeast as a tool for studying lipid and lipoprotein metabolism.

Drs. Ira Goldberg and Sivaram Pillarisetti: Role of lipoprotein lipase in atherogenesis and lipoprotein metabolism.

Drs. David Stern and Ann Marie Schmidt: Role of the receptor for advanced glycation end-products in the microvascular complications of diabetes.

Dr. Ira Tabas: Mechanisms of macrophage foam cell formation and role of LDL retention and aggregation in atherogenesis.

Drs. Alan Tall, Jeanine D'Armiento, and Xian Jiang: Regulation of plasma lipid transfer proteins and their role in atherogenesis; regulation of plasma lipoprotein metabolism; role of metalloproteinases in atherosclerosis.

Interested applicants should write to:

Henry N. Ginsberg, M.D. Department of Medicine Columbia University 630 West 168th Street, Rm. P&S9-510 New York, NY 10032

We are particularly interested in identifying minority individuals for this program. Columbia University is an affirmative action/equal opportunity employer.



An MDS Pharmaceutical Services Company

Ph.D. Molecular Microbiologist (Position 98-31)

MDS Panlabs, located near Seattle, provides R&D services to the pharmaceutical and biotechnology industries. We seek experienced and ambitious individuals to join a team of molecular biologists solving challenging problems in heterologous gene expression and metabolic pathway engineering. Candidates must have a Ph.D. and postdoctoral experience with industrial microorganisms such as *Streptomyces*, *Saccharomyces*, *E. coli*, etc. The position primarily requires work at the lab bench, but leadership and communication skills are also important. Please send résumés to:

> MDS Panlabs Human Resources Job # 98-31 11804 North Creek Parkway South Bothell, WA 98011 or FAX: 425-487-3787

MDS Panlabs is an Equal Opportunity Employer. We regret we are unable to respond to each résumé. Only those selected for an interview will be contacted.

BIOLOGIST (Forensic Examiner) \$66,138 - \$85,978

The Federal Bureau of Investigation is currently seeking a Biologist to serve as a Master Forensic Examiner. Responsibilities involve planning, coordinating and directing forensic science activities related to high-volume DNA Databasing. Duties involve training and assisting with the



certification of other examiners in the field; examining individual items of evidence; evaluating solutions, buffers and reagents used in DNA analysis; testing new products and analytical procedures and recommending solutions to problems; solving technical problems; preparing oral and written reports; and serving as the manager of a Major Laboratory Program or Initiative as required.

Requirements include a Bachelor's Degree (Master's/Ph.D. preferred) in Biochemistry Sciences, Biotechnology or related field including a minimum of 24 semester hours in Biochemistry or the biological sciences as well as experience which involves professional work in biology, agriculture, or related natural management. Forensic experience preferred. In addition, the following KSAs are also required: 1) Knowledge of DNA Restriction Fragment Length Polymorphism (RFLP), Polymerase Chain Reaction (PCR), sequencing and related biotechnical techniques and procedures; 2) Knowledge of related equipment, instrumentation and tools; 3) Ability to train, supervise and certify experts performing complex biological analysis; 4) Knowledge of the rules of evidence and legal procedures involved in handling evidence; 5) Ability to evaluate procedures; 6) Ability to organize, plan and prioritize work activities; 7) Excellent written and verbal communication skills.

Resumes should be sent no later than May 25, 1998 to: **FBI, 935 Pennsylvania Ave, N.W., Room 3640, Attn: BFEO, Washington, D.C. 20535-0001.**

Responses postmarked after the cut-off date will not be considered. Only those candidates determined to be the best qualified will be contacted to proceed in the selection process. You must be a U.S. citizen and consent to a complete background investigation, drug test and polygraph as a prerequisite for employment. The FBI is an Equal Opportunity Employer.

The Federal Bureau of Investigation

Metabasis Therapeutics, Inc., a majority-owned subsidiary of Gensia Sicor Inc., is a newly formed biopharmaceutical company in San Diego, California. Our research programs are focused on the rational design of drugs that target metabolic pathways important in pain, diabetes, and other therapeutic areas. We are currently seeking exceptionally talented scientists to join our growing Cardiovascular and CNS Pharmacology groups.

Cardiovascular Pharmacologist — A Ph.D. in Pharmacology or Physiology with 1–3 years of postdoctoral research experience is required. The successful candidate will be responsible for evaluating novel purinergic approaches to treat chronic CAD. Experience with studies involving myocardial angiogenesis, tissue remodelling, and heart failure is preferred. A proven record of research productivity as well as authorship of quality publications is expected. **CODE: CP**

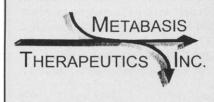
CNS Pharmacologist—A Ph.D. in Pharmacology or Physiology with

2–4 years of postdoctoral research experience is required. You will be responsible for developing a new class of drugs for the treatment of pain and other CNS disorders. Experience with studies pertaining to analgesic agents in acute and chronic pain states is preferred. A proven record of research productivity as well as authorship of quality publications is expected. **CODE: CNS**

Pharmacology Associate—A B.S. or M.S. degree in Pharmacology or Physiology with 2–3 years of laboratory research experience is required. Also essential is experience with surgical/instrumentation techniques as well as the ability to successfully conduct *in vivo* studies. Cardiovascular or CNS pharmacology experience is preferred. **CODE: PA**

We offer a competitive compensation package including a stock option program and comprehensive benefits, in a fast-paced, highly stimulating, team-oriented environment. Qualified applicants are invited to submit a CV and cover letter with the appropriate CODE to: Metabasis Therapeutics, Inc., Research Department, 9390 Towne Centre Drive, San Diego, CA 92121-3015 or fax to 619-458-3504.

We are proud to offer Equal Employment Opportunities and a culturally diverse workplace to everyone.



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U NOVARTIS

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At Novartis Pharmaceuticals, our scientific professionals apply our technologies and their focus, to see their efforts culminate in a range of therapeutic areas including transplantation/immunology, arthritis/ inflammation/bone, cardiovascular and metabolic, nervous system, dermatology, oncology and respiratory.

Our pipeline is ranked among the ten best in the industry. With over 90 projects in development, we expect to bring 17 new products to market by the Year 2000.

Research Scientist X-Ray Crystallography

As an integral member of a structure-based drug design group, you will lead independent protein crystallography investigations; and participate in multi-disciplinary drug discovery teams. You will be responsible for solving protein structures of interest to the therapeutic areas, and conveying these results to both computational and synthetic chemists. You will also participate in structural biology design teams which include biologists and protein chemists to help insure that targeted proteins are produced in a form suitable for crystallographic studies.

Qualifications include a Ph.D. (or equivalent) in a physical or biophysical science with 1-4 years of postdoctoral experience in protein crystallography. Additionally, you must have demonstrated success in all aspects of protein crystallography including: crystallization, data collection (synchrotron experience is desirable), phasing techniques (e.g. MIR, MAD, molecular replacement), and refinement. A strong background in either molecular biology and protein expression or in protein chemistry would be a decided asset.

Bring us your education and expertise—we'll provide the resources you need to do your best work. PRINCIPALS ONLY: send your resume/curriculum vitae and letter of interest, indicating Position MG-5571 on resume AND envelope, to: R&D Staffing, Novartis Pharmaceuticals Corporation, 556 Morris Avenue, Building G2, Summit, NJ 07901. We are an equal opportunity employer M/F/D/V. We appreciate your interest in our Company. Unfortunately, we will only be able to respond to those candidates chosen for interviews or additional follow-up.

The Neurosciences Institute (NSI) is an independent, not-for-profit organization at the fcrefront of research on the brain. Located in La Jolla, it is also the home of the Neurosciences Research Program and serves as an international meeting place for neuroscientists; Fellows have opportunities to interact with visitors from many institutions worldwide.

ASSOCIATE FELLOW IN EXPERIMENTAL NEUROBIOLOGY

Applications are invited for the position of Associate Fellow in Experimental Neurobiology, with an emphasis on neuropharmacology. The NSI's goal is to increase understanding of brain processes at several organizational levels, from the molecular to the cognitive. A current focus is on the action and pharmacological manipulation of neuromodulatory systems with diffuse projections, such as the noradrenergic, serotoninergic, cholinergic, dopaminergic, and histaminergic systems. Successful candidates will be expected to collaborate with other Fellows in Experimental Neurobiology and to take advantage of opportunities for scientific exchanges with Fellows in Theoretical Neurobiology.

Applicants should be at the assistant professor level with strong backgrounds in neuropharmacology and behavioral neuroscience. Positions are now available. Fellows receive stipends appropriate to their qualifications and experience. Candidates should send a short statement of research interests, a curriculum vitae, and the names of three references to: Dr. W. Einar Gall, Research Director, The Neurosciences Institute, 10640 John Jay Hopkins Drive, San Diego, CA 92121.

JUNIOR FELLOW IN THEORETICAL NEUROBIOLOGY

Applications are invited for positions as Junior Fellow in Theoretical Neurobiology. Since 1987, the NSI has had a research program dedicated to developing biologically based, experimentally testable theoretical models of neural systems. Current projects include large-scale simulations of neuronal networks, the design of behaving automata, and the analysis of functional interactions among brain areas using modern neuroimaging techniques. Advanced supercomputer facilities are available. Junior Fellows in Theoretical Neurobiology will be expected to collaborate with Senior Fellows in Theoretical Neurobiology and will have daily opportunities to interact with Fellows in Experimental Neurobiology.

Applicants should be at the postdoctoral level with strong backgrounds in experimental or theoretical neuroscience, neuroimaging, or related fields. Experience in computer modeling or statistics is especially welcome. Positions are now available. Fellows receive stipends appropriate to their qualifications and experience. Candidates should send a short statement of research interests, a curriculum vitae, and the names of three references to: Dr. Olaf Sporns and Dr. Giulio Tononi, The Neurosciences Institute, 10640 John Jay Hopkins Drive, San Diego, CA 92121.





Brooklyn

Offers Five Faculty Positions in the Department of Physiology and Pharmacology

The newly expanded Department of Physiology and Pharmacology at the State University of New York Health Science Center at Brooklyn (SUNY Brooklyn) is now inviting applications for five tenure-track faculty positions. Positions will be filled at **Assistant, Associate or Full Professor** levels, depending upon qualifications. Candidates should have a proven aptitude for innovative and productive research with an emphasis on **molecular and cellular approaches**. Areas of interest may include:

- Molecular recognition at receptor/ligand binding sites
- Intracellular and intercellular signaling
- Developmental and degenerative diseases

Successful candidates are expected to conduct vigorous research programs, and to contribute to the teaching of Physiology to medical students and graduate students. They will be offered generous recruitment packages, including state-of-the-art laboratories, startup funding for lab equipment and operation, and salaries competitive for the New York Metropolitan area. They will join a group of established investigators with internationally recognized research programs.

The Health Science Center is located in Brooklyn, a short distance from Manhattan. Brooklyn is rapidly undergoing a remarkable revitalization of its cultural and educational institutions. The location provides ready access to cultural and scientific centers of the New York Metropolitan area.

Please send a curriculum vitae, statement of research interests and contact information for three references to:

Robert K. S. Wong, Ph.D. Department of Physiology and Pharmacology, Box 29 SUNY Brooklyn 450 Clarkson Ave Brooklyn, NY 11203

Applications will be accepted until the positions are filled. Review will begin June 1, 1998. SUNY Brooklyn is an Affirmative Action / Equal Opportunity Employer.



MEDICAL UNIVERSITY OF SOUTH CAROLINA

Announces Training Opportunities in Cardiovascular Biology

- VASCULAR DISEASE
- HYPERTENSION
- CARDIAC HYPERTROPHY
- CARDIOVASCULAR DEVELOPMENT

Postdoctoral research fellowships are available for outstanding candidates with graduate degrees in the biological, chemical, medical, or physical sciences. The training program focuses on the mechanisms of cardiovascular diseases and the development of experimental strategies and technologies necessary to generate novel therapeutics for targeting these diseases. Emphasis is placed upon an integrated training experience involving molecular-based concepts within the context of cellular dysfunction during organ development and pediatric/adult cardiovascular disease. The program includes over 20 research laboratories supported by the NIH, American Heart Association, and private foundations.

CELL SIGNALING MASS SPECTROMETRY BIOIMAGING/COMPUTER MODELING CELL BIOLOGY HUMAN GENETICS GENE TRANSFER THERAPEUTICS

Individuals must possess a Ph.D. and/or M.D. degree, research experience, and U.S. citizenship or permanent residency. Applicants should send a curriculum vitae, a career statement, and the names of three references to: Dr. Stephen M. Lanier, Department of Pharmacology, Medical University of South Carolina, 171 Ashley Avenue, Charleston, SC 29425. laniersm@musc.edu. An Equal Opportunity/Affirmative Action Employer.

GLOBAL OPPORTUNITIES



Founded 1905

Faculty Appointments NATIONAL UNIVERSITY OF SINGAPORE DEPARTMENT OF COMPUTATIONAL SCIENCE http://www.cz3.nus.sg:8100/

The Department of Computational Science offers interdisciplinary programmes in Computational Chemistry, Computational Mathematics, Computational Physics, and Computational Biology. There is currently a small core of faculty members and several postdoctoral research fellows in the Department. Faculty members from other departments in the Faculty of Science also contribute to the teaching and research in the Department.

Major research areas in the Department include computational statistical and condensed matter physics, nonlinear dynamics and complex systems, scientific visualization, neural computing, computational quantum chemistry and molecular modeling, computational fluid dynamics, geometric modeling, wavelet analysis and applications, signal and image processing. There are strong links between the Department and other national research centres. Ties with other academic institutions and research centres overseas are maintained and the Department is fast gaining international recognition.

Applications are invited for faculty appointments at all levels in any of the following areas:

- Complex Systems
- Computational Biology
- Computational Condensed Matter and Statistical Physics
- Neural Computing
- Scientific Parallel Computations
- Computational Chemistry (molecular modeling, computer-aided drug design)
- Scientific Visualization Computational Fluid Dynamics • Symbolic Computing
- Geometric Modeling

Visiting appointments will also be considered.

Gross annual emoluments range as follows;

\$\$58,840-74,800 Lecturer Senior Lecturer \$\$68,410-144,350 \$\$128,050-177,750 Associate Professor Professor \$\$156,780-211,140 (US\$1.00=S\$1.59 approximately)

In addition, a 13th month Annual Allowance (of one month's salary) and an Annual Variable Component (of normally 2 month's salary) may be payable at year end, under the flexible wage system, to staff on normal contracts. The commencing salary will depend on the candidate's qualifications, experience, and the level of appointment offered. Leave and medical benefits will be provided. Depending on the type of contract offered, other benefits may include provident fund benefits or an end-of-contract gratuity, a settling-in allowance, subsidized housing, education allowance for up to three children subject to a maximum of S\$16,425 per annum per child, passage assistance and baggage allowance for the transportation of personal effects to Singapore. Staff members may undertake consultation work, subject to the approval of the University, and retain consultation fees up to a maximum of 60% of their gross annual emoluments in a calendar year.

All academic staff will be given a networked personal computer with access to a Cray supercomputer, UNIX hosts, departmental laser printers, a wide spectrum of software, on-line library catalogue, CD-ROM databases, Video-on Demand, INtv and Internet.

Application forms and further information may be obtained from:

Faculty Search Committee Department of Computational Science National University of Singapore **10 Kent Ridge Crescent** Singapore 119260 Fax: (65)774-6756 E-mail: cscsec@leonis.nus.edu.sg Applications should be submitted by 30 September 1998. Only shortlisted candidates will be notified.

The University of Texas HOUSTON HEALTH SCIENCE CENTER

> School of Public Health **MPH Program at Dallas**

The University of Texas-Houston Health Science Center School of Public Health is seeking qualified applicants for tenure-track positions in the core disciplines of Environmental Health Science and Management and Policy Sciences at the Assistant, Associate Professor. or Full Professor level for its new satellite MPH program. The Satellite MPH Program will be in collaboration with and located on the campus of The University of Texas Southwestern Medical Center in Dallas. Rank and salary will be determined by qualifications and background of successful applicants. Classes are scheduled to start in September 1998. The University of Texas-Houston is an Equal Opportunity Employer. Minorities and women are particularly encouraged to apply.

Ideal candidates would have a solid foundation in the academic principles of public health and familiarity with public health practice. A doctoral degree in the field or a medical degree combined with graduate-level academic training in public health is required. Responsibilities will be to teach, do research, and perform community service. Incumbents will be expected to develop research efforts that generate publications in the professional literature.

Review of applications is underway and will continue until the positions are filled. Applications, curriculum vitae, and three letters of reference should be sent to Blair Justice, Ph.D., Associate Dean for Academic Affairs, University of Texas-Houston Health Science Center, P.O. Box 20186, Houston, TX 77225.

PROTEIN DELIVERY INC. is an emerging biotech company that specializes in polymer-based technology for the stabilization and delivery of protein and peptide drugs for human and veterinary medicine. Openings are available for:

CHEMIST-SYNTHETIC CHEMISTRY

Requires knowledge of synthetic manipulations of protein polymer and small molecule weight drugs and knowledge of all instrumental methods of analysis. Ability to interpret structures based on information from analytical data is required. Must be willing to learn new processes. Ph.D. in Organic Synthetic Chemistry or related field and 3 years work experience are required, as are excellent oral/written communication and interpersonal skills.

PHARMACOLOGIST

Excellent problem-solving skills and the ability to formulate creative and innovative solutions to identify and develop new therapeutic agents is required. Must be a highly motivated and well-organized team player with experience in developing in vitro assays and animal models. Will participate in multidisciplinary discovery and development projects. Requires Ph.D. degree and at least 3 years experience in biotechnology or pharmaceutical company. Excellent communication and interpersonal skills required. Submit your resume immediately, indicating the position for which you are applying and salary history, to: Human Resources, PROTEIN DELIVERY INC., 2300 Englert Drive, Suite G, Durham, NC 27713; Fax: (919) 361-9765. EOE M/F/D/V



University of Minnesota Cancer Center Translational Physician/Scientist in Breast Cancer Biology and Therapy

The University of Minnesota Cancer Center and the Department of Medicine seek an M.D. or M.D./Ph.D. to lead or participate in an interdisciplinary team focused on the development of innovative therapy for breast cancer. Applicants should be Board-eligible or certified in medical oncology or other relevant disciplines and have a demonstrated interest in the clinical care of breast cancer. In addition, applicants should direct laboratory or clinically based research projects addressing the biology, natural history, etiology, or innovative treatment of breast cancer and relevant to the development of new therapy for breast cancer. The applicant's research projects should be federally funded, or show promise of such funding. The successful candidate will have an Assistant or Associate Professor appointment in the University of Minnesota Cancer Center and a tenured or a tenure-track faculty appointment in the Department of Medicine commensurate with level of achievement. Junior faculty and senior trainees are encouraged to apply.

Interested individual should reply with a curriculum vitae, a brief research statement, and names of three references to: Philip McGlave, M.D., Chair, Translational Physician/Scientist in Breast Cancer Biology and Therapy Search Committee, Attention: Marilyn Madsen, University of Minnesota Cancer Center, Box 806 Mayo, 420 Delaware St. S.E., Minneapolis, MN 55455-0392 USA.

Applications accepted until June 30, 1998, or until position is filled. *The University of Minnesota is an Equal Opportunity Educator and Employer.*

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Massachusetts Institute of Technology's reputation for scientific and technical leadership is an integral part of it's Summer Professional Programs. In many cases, the faculty have developed the theories they teach. The students are your colleagues in business and industry. The resources such as labs, research libraries and apparatus are the same used by regular students, graduate and undergraduate. The curriculum of 50-60

courses is geared to the working professional: high-tech, up-todate, well-organized and presented in a coherent manner. They directly address the problem most professionals face: How do I obtain and assimilate the information I need to stay competitive in my career?

COMPUTER SCIENCES • SYSTEMS • DESIGN MATERIALS • CONTROL • BIOTECHNOLOGY • MANAGEMENT For further information, please contact: MIT Professional Institute 77 Massachusetts Ave., 8-201, Cambridge, MA 02139-4307 Phone: 617-253-2101; fax: 617-253-8042 World Wide Web Home Page: http://:web.mit.edu/professional/ E-mail: professional-institute@mit.edu

SUMMER PROFESSIONAL PROGRAMS

U NOVARTIS

Located in the heart of North Carolina's Research Triangle Park, Agribusiness Biotechnology Research, Inc., a Novartis Group Company formed from the merger of Ciba and Sandoz, has excellent opportunities for you to become an active contributor to its Fungal Genetics project team.

FUNGAL MOLECULAR GENETICIST/No. 9828

You will conduct research related to the molecular targets of fungicides, fungicidal modes of action and/or modes of resistance to fungicides. To qualify, you must have an MS degree or a BS degree with 2 years of relevant experience. Strong knowledge of molecular biology techniques is essential. Experience with model fungal systems (yeast, Aspergillus or Neurospra) is strongly preferred.

FUNGAL MOLECULAR GENETICIST/No. 9816

You will develop genetic approaches toward the identification of molecular targets of fungicides. Primary areas of involvement will include gene knock-out, mutant screening and characterization. To qualify, you must have an MS degree or a BS degree with 2 years of relevant experience. Strong knowledge of molecular biology techniques is essential. Previous experience with model or phytopathogenic fungal systems is preferred.

Please send resume, indicating appropriate position no., to: Novartis Biotechnology, Human Resources, Attn: N.T., position #_____, 3054 Cornwalis Rd., Research Triangle Park, NC 27709-2257. An Equal Opportunity Employer.

GLOBAL OPPORTUNITIES

THE AUSTRALIAN NATIONAL UNIVERSITY

The Division of Botany and Zoology, Faculty of Science, The Australian National University is seeking to attract an outstanding researcher to fill a tenurable Lectureship (Level B) available in whole-plant physiology. The successful applicant will be involved in developing, organizing and contributing to undergraduate units in botany, supervision of honours and graduate students, and will be expected to develop a strong independent research program. The position is available from 1 December 1998.

Enquiries should be directed to Dr Penny Gullan, Head, Division of Botany and Zoology, telephone: (61 2) 6249 3028 or email: Penny.Gullan@anu.edu.au

Additional information regarding the Division may be obtained from internet address: http://online.anu.edu.au/BoZo/

Further particulars including selection criteria should be obtained before applying from the Staffing Recruitment Officer, tel: (61 2) 6249 5903; fax: (61 2) 6249 5011;

email:academic.staffing.appointments@anu.edu.au Salary range Lecturer (Level B) AUD47,435 - AUD55,%66 pa.

Applications to the Staffing Recruitment Officer, The ANU, Canberra ACT 0200, quoting ref. no. FS14.4.1 including CV, list of publications, names and addresses of three referees. Closing date 18 June 1998.

The Schepens Eye Research Institute Harvard Medical School Postdoctoral Positions

Two postdoctoral positions are available to study molecular and cellular mechanisms underlying neurodevelopment and nerve regeneration in the CNS (PNAS 92, 7287; Nature 385, 434) and/or to develop transgenic mouse model (Cell 87, 1317) for retinal transplantation. The successful candidate will have demonstrated skills and experience in one of the following areas: 1) molecular biology, cell biology and/or biochemistry, tissue culture; 2) in situ hybridyzation and/or immunohistochemistry, neuroanatomy, animal surgery. Please submit curriculum vitae and three letters of reference to:

> Dr. Dong Feng Chen C/O Human Resources - Frances Ng The Schepens Eye Research Institute Harvard Medical School 20 Staniford Street Boston, MA 02114 e-mail: dfchen@wccf.mit.edu FAX: (617) 253-6269

SERI and Harvard Medical School are Equal Opportunity/ Affirmative Action Employers. Women and minorities are encouraged to apply.

Scientist

Cell Biology/Murine Modeling

Located in the San Francisco Bay Area, **COR Therapeutics, Inc.** is a publicly-held biopharmaceutical company focused on the discovery & development of novel therapeutics for the treatment of severe cardiovascular disease. Our continued growth has created a challenging opportunity for a skilled Cellular Biologist with murine modeling experience to join our expanding Integrin Signaling team.

You will play an integral role in our ongoing research effort to discover adhesion-dependent signaling pathways of vascular cells. You will also develop systems which utilize primary cell cultures expressing mutated receptors to analyze integrin-mediated signaling events. The position requires a Ph.D. and/or M.D. along with 2-5 years of postdoctoral experience. Preference will be given to applicants with prior experience using murine models with an emphasis on models reflective of vascular pathologies & inflammation.

COR Therapeutics, Inc. offers competitive salaries & benefits, attractive equity positions and the opportunity to make significant research contributions. To apply, please send resume & salary history to: COR Therapeutics, Inc., Human Resources Dept, Attn: Job# 97087-SCI, 256 East Grand Avenue, South San Francisco, CA 94080; Fax (650) 244-9213: Email: hr@corr.com. Principals only, please. COR is an equal opportunity employer.

OR cor therapeutics, inc.

National Cancer Institute National Institutes of Health, Public Health Service

CANCER PREVENTION FELLOWSHIP PROGRAM

The National Cancer Institute is accepting applications for the Cancer Prevention Fellowship Program (CPFP). The purpose of this program is to train individuals from a multiplicity of health science disciplines in the field of cancer prevention and control. The program provides for: Master of Public Health training (at accredited one-year university programs); Participation in the Cancer Prevention and Control Summer Academic Course (open to physicians and scientists interested in specialized instruction on the principles and practice of cancer prevention and control); Mentored research training in cancer prevention and control at the National Cancer Institute; Brief field assignments in cancer prevention and control programs at other institutions. Fellows will be accepted for up to five years of training, beginning July 1, 1999. Benefits include selected relocation and travel expenses, paid federal holidays, and participatory health insurance.

Research opportunities include but are not limited to: chemoprevention, clinical epidemiology, diet, nutrition and other lifestyle factor studies, evidence-based decisionmaking, intervention studies, outcomes research, special populations, screening and early detection (including genetic and other biomarkers), smoking cessation, social and behavioral research, statistical and epidemiological methodology, and translational research.

ELIGIBILITY

M.D., D.D.S., or D.O. from a U.S., territorial, or Canadian Medical School. Foreign medical graduates must have current USMLE or ECFMG certification and appropriate experience, e.g., one-year residency in a training program approved by the Accreditation Council for Graduate Medical Education.

OR

Ph.D. or other doctoral degree in a related discipline (epidemiology, biostatistics, and the biomedical, nutritional, public health, or behavioral sciences). Foreign education must be comparable to that received in accredited U.S., territorial, or Canadian institutions.

PLUS

The applicant must be a citizen or resident alien of the United States eligible for citizenship within four years.

To receive an application catalog either call, fax, e-mail, or send a postcard or letter with your name, home address, and where you heard about the program to:

Douglas L. Weed, M.D., M.P.H., Ph.D. Director, Cancer Prevention Fellowship Program National Cancer Institute Executive Plaza South, Suite T-41 6130 EXECUTIVE BLVD MSC 7105 BETHESDA, MD 20892-7105

Further Inquiries: Mrs. Barbara Redding TEL (301) 496-8640 FAX (301) 402-4863 e-mail: br24v@nih.gov http://dcp.nci.nih.gov/cpfp/

DEADLINE FOR RECEIPT OF APPLICATIONS: SEPTEMBER 1, 1998

Selection for this training program will be based solely on merit, with no discrimination for nonmerit reasons, such as race, color, gender, national origin, age, religion, sexual orientation, or physical or mental disability.

NIH is an Equal Opportunity Employer.

Call for Nominations — 1999 Awards

The **NATIONAL ACADEMY OF SCIENCES** presents a number of awards to recognize individuals whose contributions have made a major impact on the scientific community. Nominations for the following awards to be presented in 1999 will be accepted through September 1, 1998. For more information or to obtain a nomination form, visit our web site at <www.nas.edu/nas> or call (202) 334-1686.

biology and medicine Richard Lounsbery Award

biomedical science (young investigator) NAS Award for Initiatives in Research

chemistry NAS Award in Chemical Sciences NAS Award for Chemistry in Service to Society

economics NAS Award for Scientific Reviewing

environmental science Robertson Memorial Lecture

geology and paleontology Mary Clark Thompson Medal

marine engineering/naval architecture Gibbs Brothers Medal microbiology Selman A. Waksman Award in Microbiology

molecular biology (young investigator) NAS Award in Molecular Biology

physics Comstock Prize in Physics

physics of the Earth Arthur L. Day Prize and Lectureship

experimental psychology (young investigators) Troland Research Awards

solar physics and solar-terrestrial relationships Arctowski Medal

science (general)

NAS Award for the Industrial Application of Science NAS Public Welfare Medal



NATIONAL ACADEMY OF SCIENCES

Awards Program — 2101 Constitution Avenue, N.W., Room 185 — Washington, DC 20418 (202) 334-1686 — (202) 334-2153 FAX — rmathles@nas.edu — http://www.nas.edu/nas/

Challenging Opportunities

Genetic Therapy, Inc. is a leader in the research and development of human gene therapy products, for the treatment of genetic and acquired diseases. Founded in 1986, Genetic Therapy and its collaborators represent one of the largest groups of scientists dedicated to research and development in this field.

The DNA Viral Vector Unit is seeking innovative scientists for programs in gene regulation, vector development, and gene therapy for hemophilia. All positions require strong analytical and problem solving skills and the ability to work and communicate effectively in a fast paced team oriented environment.

Controlled Gene Expression Program

We are seeking the following individuals to join a team developing mechanisms for regulating the expression of vector-delivered genes.

Post-Doctoral Fellow: Candidate will have a Ph.D. in a scientific discipline with a strong background in cellular and molecular biology; or equivalent. Expertise in eukaryotic gene expression is necessary and experience with mammalian or yeast two-hybrid systems is highly desirable. A strong chemistry background is also an advantage. This is a three year position. (Job Code: T112-011-7)

Senior Scientist I: Candidate will have a Ph.D. in a scientific discipline and two years experience in cellular immunology; or equivalent. Experience with animal models and in vitro assay systems for the evaluation of cellular immune responses is essential. A background in eukaryotic gene expression is desirable. (Job Code: 260-011-7)

Vector Development

Senior Scientist I: Successful candidate will join a team developing state-of-the-art adenoviral vectors and optimizing the application of these gene transfer vehicles for the treatment of human diseases. Candidate must have a Ph.D. in a scientific discipline and two years experience in molecular and cell biology; or equivalent. Experience in gene therapy and virology is desirable. (Job Code: 263-011-7)

Hemophilia Program

Senior Scientist I: Individual will develop clinically relevant vector systems and investigate the immunological aspects of factor VIII gene delivery. Candidate must have a Ph.D. in a scientific discipline and 2 years experience with a background in immunology and a molecular biology; or equivalent. Experience in animal modeling and assay development is desirable. (Job Code: 261-011-7)

GTI, a Novartis company, offers a stimulating and challenging environment in a rapidly growing company , with competitive salaries and benefits. Please specify job code when applying. Fax or send resume to:

Genetic Therapy, Inc. 938 Clopper Road Gaithersburg, MD 20878 Fax: (301) 208-2481 E-mail: gti.jobs@pharma.novartis.com



What's the shortest distance between two points?



ASSISTANT/ASSOCIATE PROFESSOR BIOCHEMISTRY AND MOLECULAR PATHOLOGY

Applications are being accepted for a tenure-track position in the Department of Biochemistry and Molecular Pathology, Northeastern Ohio Universities College of Medicine (NEOUCOM). Proposed starting date for the position is July 1, 1998, but is negotiable. A strong, independent research program with a demonstrated ability to attract external funding is essential. Teaching responsibilities will include medical biochemistry in which basic biochemistry and molecular biology are taught using the red blood cell and hemoglobin synthesis as a model system. Research focus should be in the area of skeletal biology and experience with transgenic animal technology is desirable. Salary, start-up support, and facilities for research are competitive.

NEOUCOM, in consortium with Kent State University, The University of Akron, Youngstown State University, and eight major teaching hospitals offers a combined B.S./M.D. degree. Basic medical science faculty participate in graduate programs leading to the Ph.D. in collaboration with the School of Biomedical Science at Kent State University. Graduate training opportunities in Biomedical Engineering are also available in collaboration with the Institute for Biomedical Engineering Research at The University of Akron.

Applicants are requested to forward their curriculum vitae, a statement of research interests, and the names of at least three references by June 5, 1998, to: Human Resources Office, c/o Dr. William J. Landis, Biochemistry and Molecular Pathology Search Committee, NORTHEASTERN OHIO UNIVER-SITIES COLLEGE OF MEDICINE, 4209 State Rt. 44, P.O. Box 95, Rootstown, OH 44272-0095. We take Affirmative Action toward Equal Employment Opportunity.

GENE DISCOVERY SCIENTISTS

Digital Gene Technologies, Inc.— the La Jolla–based genomics company — is revolutionizing the discovery process for new gene targets and candidates. The company's automated Total Gene Expression Analysis technology (TOGA^M) enables the systematic and simultaneous measurement of the expression levels of virtually all genes within a cell or tissue sample.

Our growing in-house gene discovery team uses $TOGA^{TM}$ in its search for therapeutically important molecules in a wide range of diseases and drug action paradigms including oncology, inflammation, cardiovascular and CNS pathologies, as well as addiction, alcoholism, and infectious disease. We are seeking highly motivated, Ph.D.-level scientists with at least 2 years of postdoctoral experience and demonstrated expertise in molecular biology. New gene discovery scientists will direct and participate in identification and functional characterization of novel molecules based on DGT's TOGATM technology.

New team members will also be able to draw on state-of-the-art cell and molecular biology methodologies and bioinformatics approaches to gene discovery and downstream characterization of gene function. Demonstrable problem-solving skills using a variety of technical approaches are required.

Compensation will meet your qualifications and includes equity participation. For consideration, please send or fax your résumé/CV and 3 letters of reference to:

Digital Gene Technologies, Inc. 11149 North Torrey Pines Road La Jolla, CA 92037 FAX: (619) 552-8625 EOE

DIGITAL

GENE TECHNOLOGIES, INC.



HARVARD SCHOOL OF PUBLIC HEALTH

The Division of Biological Sciences at Harvard School of Public Health has several **postdoctoral research fellowships** available in a wide range of topics applying basic cellular and molecular biology or physiology to major problems in public health. For complete descriptions of our research programs visit the **HSPH website:** http://hsph.harvard.edu. Candidates should send c.v., description of research experience, and names and addresses of three references to faculty of choice listed below at **Harvard School of Public Health**, **665 Huntington Avenue**, **Boston**, **MA 02115**. *HSPH is an Affirmative Action and Equal Opportunity Employer*.

Robert Banzett, Ph.D. Physiologic mechanisms of perception of dyspnea. Joseph Brain, S.D. Macrophages, aerosol deposition, respiratory infection. James Butler, Ph.D. Mathematics and physics in respiratory physiology. Claire Doerschuk, M.D. Mechanisms of leukocyte responses in lung disease. Jeffrey Fredberg, Ph.D. Bronchospasm, asthma, mechanics of contractile cells. John Godleski, M.D. Pulmonary pathology, responses to inhaled materials. Beatriz Gonzalez-Flecha, Ph.D. Oxidant-dependent cell promotion in lung epithelium.

Gokhan Hotamisligil, M.D., Ph.D. Signal transduction, adipocyte differentiation, obesity and diabetes.

Arthur Lee, M.D., Ph.D. Master genes regulating differentiation of vascular cells. Stephen Loring, M.D. Respiratory mechanics in emphysema. Lester Kobzik, M.D. Lung macrophage differentiation and function. Carl Maki, Ph.D. p53 family ubiquity and stability.

Carl Mark, Ph.D. p55 raining ubiquity and stability.
Joseph Paulauskis, Ph.D. Macrophages/cytokines in lung inflammation.
Leona Samson, Ph.D. DNA alkylation repair from *E. coli* to humans.
John Samuelson, M.D., Ph.D. Molecular biology of amoebea and giardia.
Stephanie Shore, Ph.D. Human breathing disorders affected by sleep, circadian rhythms.
Stephanie Shore, Ph.D. Effects of cytokines on airway smooth muscle cell biology.
Ning Wang, Sc.D. Cytoskeletal mechanics, mechanochemical signal transduction.

Marianne Wessling-Resnick, Ph.D. Iron transport, regulation of endocytosis.

POSTDOCTORAL FELLOWSHIPS

DNAX Research Institute, located near Stanford University, carries out research in a variety of areas of molecular and cellular biology with an emphasis on immunology, hemopoiesis and oncology.

The Cell Signaling Department currently has openings in the following laboratories:

Dr. Ronald Herbst: to investigate the function and regulation of protein tyrosine phosphatases.

Dr. Emma Lees: to study the regulation of cell cycle progression in normal and cancer cells.

Candidates should have a solid background in molecular biology or biochemistry. Experience in cell biology and signal transduction is strongly preferred.

Qualified individuals should send a curriculum vitae, statement of research interests, 2 recent reprints and the names and phone numbers of 3 references to: the Human Resources Department, DNAX Research Institute, 901 California Avenue, Palo Alto, CA 94304. DNAX is an equal opportunity employer, m/f/h/v.



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....at the forefront of drug discovery at The DuPont Merck Pharmaceutical Company. We are focused on meeting unmet medical needs through the discovery of innovative medicines. We currently have an opening at our facility in Wilmington, DE.

Associate/Staff Scientist

The incumbent will be responsible for implementing a battery of secondary assays for compounds discovered in primary screening. These secondary assays include compound solubility, serum protein binding, octanol/water partitioning, permeability and others which will help chemists in their choice of compounds on which to begin SAR studies. A BS/MS degree or equivalent is required for this scientist to participate in technology development for high-throughput screening. A background in biochemistry and cell biology with a strong emphasis on assay development is also necessary. (Code: CR-KOAS)

Associate/Staff Scientist

The candidate should be able to work independently, have experience with enzyme assay development, especially in 96-well or high density format. A BS/MS degree or equivalent plus knowledge of enzyme kinetics, especially as it relates to assay development and inhibitor characterization is important. Hands on experience with fluorescence-based assays (donor/quencher, HTRF, polarization) or radiolabelled assays (especially SPA, flashplate) is also very important. Excellent facility with Excel a must; visual basic programming in Excel a plus. Familiarity with MS Access and SQL also helpful. (Code: CR-DJM)

Sr. Research Scientist

The selected candidate will be responsible for developing and implementing a battery of secondary assays for compounds discovered in primary screening. These secondary assays include compound solubility, serum protein binding, octanol/water partitioning, permeability and others which will help chemists in their choice of compounds on which to begin SAR studies. A Ph.D. or equivalent is required for this individual to lead an effort in designing new methods for high-throughput drug development with a background in biochemistry and cell biology including a strong emphasis on assay development. (Code: CR-SRS)

Protein Chemist

Requires a skilled protein chemist with experience in enzymology and protein purification and characterization. Expertise in column chromatography, FPLC and gel electrophoresis including IEF is essential. The candidate must also be able to design and establish biochemical assays. Skills in molecular biology and an interest in structural biology are desirable. BS/MS degree in Biochemistry/Chemistry or related field and 2-3 years of work experience is required. (Code: SD-SC)

DuPont Merck offers a competitive salary and excellent flexible benefits package. For immediate consideration, please forward a cover letter and resume, indicating position code, to: Human Resources-(Code), The DuPont Merck Pharmaceutical Company, P.O. Box 80400, E400/2413, Wilmington, DE 19880-0400. An equal opportunity employer.

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Research Scientist Molecular Biology

An immediate opening exists for a qualified candidate to participate in a multidiscipline drug discovery team. The position requires a Ph.D. in molecular biology and 2-4 years of additional training (postdoctoral or industrial). Preference will be given to a candidate with experience with S. aureus expression or genetics systems. Familiarity with biochemistry, protein purification, or assay development technologies is a plus. The candidate will be expected to participate in the identification and validation of novel drug discovery targets from bacterial and fungal pathogens, the development of drug discovery technology, and to direct research associates. Good communication skills and the ability to function in a multiple-task environment are essential.

Cubist Pharmaceuticals is a biopharmaceutical company focused on the research, development, and commercialization of novel antimicrobial drugs to combat emerging strains of drug-resistant bacteria and fungi. At Cubist, we offer competitive compensation, outstanding growth opportunities, and a comprehensive benefits package including group insurance, 401(k), and tuition reimbursement. Qualified candidates, please send your résumé to:

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McArdle Laboratory for Cancer Research Department of Oncology, Medical School Faculty Position in Cancer Genetics

We are seeking a colleague to join us in a tenure-track faculty position as an Assistant Professor of Oncology in the McArdle Laboratory for Cancer Research, Medical School, University of Wisconsin-Madison. The faculty at the McArdle Laboratory are committed to understanding the origins, prevention, and therapy of cancer through basic research. Applicants for this position should be interested generally in the mechanisms of carcinogenesis and in pursuing research that builds on our campus' strengths in the broad area of cancer genetics. The department provides a variety of shared research resources, including superb animal facilities ideal for investigators who use mouse genetics, gene knockouts, and transgenic animals to study cancer. Members of the department participate in excellent, well-funded graduate and postgraduate training programs. To be considered, please submit a curriculum vitae, publication list, a 2- to 3- page statement of research accomplishments and future objectives, and have 3 qualified individuals send letters of recommendation. Review of the applications will begin on July 1, 1998.

Applications and letters of recommendation should be sent to: Faculty Search Committee, McArdle Laboratory for Cancer Research, University of Wisconsin, 1400 University Avenue, Madison, WI 53706-1599. The University of Wisconsin is an Equal Opportunity/Affirmative Action Employer. Wisconsin State laws permit public access to names, addresses, and occupations of applicants. LeukoSite, Inc., located in the Kendall Square area of Cambridge, MA, is a leader in inflammation research and the development of novel therapeutics for the selective immunosuppression of chronic inflammatory diseases. We have collaborations with major pharmaceutical companies, as well as leading academic labs in the US and Europe.

POSTDOCTORAL POSITION

A postdoctoral position is immediately available to be part of a multidisciplinary team working on the discovery of new adhesion molecules and G protein coupled receptors. The position will be equally divided between utilization of expression cloning strategies aimed at the discovery of novel proteins which mediate leukocyte adhesion and chemotaxis, along with the use of bioinformatics to identify novel G-protein coupled receptors. The ideal candidate should be well versed in multiple molecular biology techniques including mRNA isolation, cDNA library construction, PCR based gene cloning and differential gene expression analysis. Additionally, experience in or an aptitude for computational analysis of DNA sequences is highly desired, including a working knowledge of UNIX based operating systems.

P lease send your CV with cover letter to: Employee Services, LeukoSite, Inc., 215 First Street,

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Cambridge, MA 02142. An Equal Opportunity Employer. See our website at: www.leukosite.com.

Biochemistry

SENIOR SCIENTIST

Southern California

At Allergan, innovative ideas and products improve the quality of life for people all over the world. We are a technology driven, global health care leader in specialty pharmaceuticals, biologicals and medical devices. If you would like to contribute in a company providing innovative health care solutions for today and tomorrow, take advantage of the following opportunity.

As a significant contributor in our Pharmaceutical Development department, you will be responsible for challenging biological formulation, process, and product development for Allergan's unique and exciting neuromuscular product, which is based upon the site specific therapeutic action of botulinum toxin type A at the neuromuscular junction.

Senior Scientist candidate will have demonstrated successful formulation and process development of biologic bulk drug and finished products with a proven track record of IND & PLA chemistry, manufacturing and control section submissions. Additionally, highly desirable expertise includes strong verbal/written communication skills, productive collaboration in a high performance team environment across R&D and Operations functions, in-depth knowledge of protein chemistry and a working knowledge of the regulatory process in a cGMP environment. Preference will be given to candidates with a strong analytical, computer and especially advanced statistical skills. A Ph.D. is required in either Chemistry, Biochemistry, or Chemical Engineering.

We offer competitive salary, excellent benefits that include a pension plan, savings & investment (401(k)) plan and employee stock ownership plan together with a great working environment at our beautiful campuslike worldwide headquarters. Please forward your resume (e-mail preferred) to: hauck_laura@allergan.com If unable to e-mail, send resume to: Allergan, Attn: Laura Hauck, 2525 Dupont Drive, Irvine, CA 92612. Fax: (714) 246-4223. EOE.

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Receptor Biochemist/Signaling

The selected individual will carry out receptor binding and signaling studies on novel hematopoietic growth factors.

We require a PhD in Biochemistry, Cell Biology or a related field. The ideal candidate will have experience in receptor biochemistry, ligandreceptor interactions, and receptor imediated intracellular signaling. Knowledge of SPR analysis, protein kinase/phosphatasc assay technique and transcriptional regulation is important. Familiarity with molecular biological techniques, immunology and/or hematopoiesis is desired.

We offer market salaries and excellent benefits, including tuition reimbursement, matching 401(k) programs, incentives based on company performance and success sharing programs. If you are a motivated team player with excellent communication skills who is capable of designing and carrying out research independently, please forward your resume to: The Monsanto Company, Job Code REC-BIO, 700 Chesterfield Pkwy, Mail Code: BB3B, Chesterfield, MO 63198. EEO/AA Employer M/F/D/V. Visit our website at www.monsanto.com.



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DEFINING SUCCESS

RESEARCH SCIENTIST

Provide technical and biological expertise for the design of subtraction strategies, analysis of results, and evaluation of identified genes as therapeutic candidates. Requires a Ph.D. with 3-5 years' post-doctoral work. Must have an expertise in molecular biology techniques, preferably with subtraction or expression analysis techniques. Knowledge of genetic databases and tools for searching databases are necessary. A biological sciences background also necessary. Job Code: RC-RSC

RESEARCH SCIENTIST

Provide technical and biological expertise to the Tissue Regeneration program, including setting up *in vitro* correlates of renal function in order to evaluate genes. Requires a Ph.D. with 3-5 years' post-doctoral work. Must have expertise in standard cell biology techniques, including proliferation, survival and apoptosis assays. Knowledge of growth factor biology in the context of developing or regenerating tissues is necessary, as is expertise in molecular techniques such as gene transfection and expression analysis. Knowledge of renal cell biology is a plus. **Job Code: RC-RST**

Biogen offers what few companies in our industry can - Professional Challenge, Stability, Growth, and one of the strongest financial profiles in the industry. In addition, our compensation and benefits package, including equity participation, is one of the best in the industry, and is designed to attract and retain the finest talent available. Please forward your resume, indicating job code, to: Biogen, Inc., 14 Cambridge Center, Cambridge, MA 02142; Fax: (617) 679-2546; Biogen is an Equal Opportunity Employer.

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STAFF SCIENTISTS

The successful candidates will have experience with protein analytical techniques and purification methods. Responsibilities include the purification of novel proteins for their biological characterization, purification of recombinant proteins for preclinical therapeutic analysis, and preparation of protein targets for high throughput screens. A demonstrated ability to work in a team environment is expected. These discovery research positions will interface with other research and development groups to develop products for criti-



cal human diseases. Our laboratories focus on a broad range of interests, including lipid mediators, chemokines, cell cycle regulation, DNA repair, cell adhesion molecules, and viral, fungal, and parasitic infectious agents. Minimum qualifications include a PhD in Biochemistry or related field.

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POSTDOCTORAL FELLOWSHIP

Postdoctoral fellowship available in the newly established Macromolecular Assembly Structure Group, under **Dr. J. Lubkowski**, in the Macromolecular Structure Laboratory. The research will focus on two major areas: Complexes of retroviral integrases with DNA and on chemokines and chemokine receptors. Experience with molecular biology and/or biochemistry required; experience with membrane proteins desirable. More information about the MSL and its research programs may be found at their website: http://nmrweb.ncifcrf. gov/abl.

The ABL-Basic Research Program at the NCI-Frederick Cancer Research and Development Center is located in Frederick, MD (45 miles north of Washington, DC), and offers a full complement of benefits, competitive postdoctoral stipends, and an excellent work environment. To apply, please send a curriculum vitae, an introductory letter containing a brief description of research experience, and contact information for three references to:

Dr. Jacek Lubkowski c/o Human Resources Dept.-SC ABL-Basic Research Program NCI-FCRDC P.O. Box B, Bldg. 428 Frederick, MD 21702 An Equal Opportunity/Affirmative Action Employer.



POSTDOCTORAL FELLOWSHIP

A Postdoctoral position is immediately available in the Cancer and Developmental Biology Laboratory, under the supervision of Dr. Colin Stewart, Director, at the ABL-Basic Research Program. Applications are sought from individuals interested in analyzing either the role of genomic imprinting in mammalian embryogenesis or on the function of growth factors in early development. Experience in the techniques of molecular biology and/or mammalian development would be an advantage. More information about the CDB Laboratory and its research programs may be found at their website: http:// nmrweb.ncifcrf.gov/abl/cdbl.

The ABL-Basic Research Program at the Frederick Cancer Research and Development Center is located in Frederick, MD (45 miles north of Washington, D.C.) and offers a full complement of benefits, competitive postdoctoral stipends, and an excellent work environment. To apply please send a curriculum vitae, an introductory letter containing a brief description of research experience, and contact information for three references to: Dr. Colin Stewart, c/o Human Resources Dept/SC, ABL-Basic Research Program, NCI-FCRDC, P.O. Box B, Bldg. 428, Frederick, MD 21702. An Equal Opportunity/Affirmative



Cancer Biology Research Scientists

Amgen, Inc., a world leader in biotechnology, has recently initiated a major effort in cancer research. We are now seeking to significantly expand our current cancer biology research group. This group is focused on the discovery and development of novel anticancer agents using the latest available information, techniques and approaches. In addition to state-of-the-art facilities, Amgen has extensive in-house expertise in genomics to fully exploit our proprietary EST database.

Applications are encouraged from highly motivated creative individuals who wish to participate in a team-oriented environment aimed at employing novel therapeutic strategies to develop cancer therapies. These positions require knowledge and expertise in the molecular genetic aspects of tumorigensis, preferably in one of the following areas: growth control, signal transduction, cell cycle, apoptosis, cell/cell interactions, or tumor suppressor genes. This person should be interested in utilizing novel techniques and approaches in the field, including genomics databases, gene expression arrays and high-throughput screening. Skill and experience in tumor models, both in vitro and in vivo, is also desired. The individual must be able to work effectively in a team environment and allocate resources toward the group's success. The qualified candidate possesses good communication skills and a solid publication record. Candidates must have a Ph.D. and 2-4 years of postdoctoral training in a related field. Excellent academic credentials are preferred.

At Amgen, your accomplishments are rewarded. We offer a highly competitive compensation and benefits package that includes a retirement and savings plan, an on-site fitness center and three weeks vacation. For immediate consideration, please mail your resume on plain white paper using standard type and fonts (no bullets, italics, underlining or bolding) to: Amgen, Staffing, Job Code: TPSC-SD-MR, P.O. Box 2569, Thousand Oaks, CA 91319-2569, or e-mail your ASCII text resume to: jobs@amgen.com. Please consult our Web site at: www.amgen.com for detailed job descriptions for all positions. Principals only, please. We recognize that diverse perspectives are a key factor in the process of discovery. EEO/AA Employer M/F/D/V.



RESEARCH SCIENTIST Molecular Biology

NEUROCRINE BIOSCIENCES, INC., is a leading neuroimmunology company focused on the discovery and development of novel therapeutics to treat diseases and disorders of the central nervous (CNS) and immune systems.

Your responsibilities will include the isolation and characterization of genes and the evaluation of their potential as drug development targets. This position requires a PhD with a minimum of 3 years' postdoctoral experience, including a background in molecular biology. Ability to conduct creative and independent research is essential. Experience in neuroscience is preferred.

NBI is located in the research hub of San Diego near UCSD, the Salk Institute, and Scripps Research Institute. In addition to a competitive compensation and benefits package with equity, our company offers a new state-of-the-art research facility to be occupied by the Fall. Please submit your CV along with the names of three references (name, address, phone, and fax) to: Neurocrine Biosciences, Inc., Human Resources/Ref: SC-RM, 3050 Science Park Road, San Diego, CA 92121-1102 or fax: (619) 658-7602. E-mail: hr@neurocrine.com. EOE.

> Visit our website: www.neurocrine.com



Manager, Confocal Imaging Facility Experimental Immunology Branch of the National Cancer Institute

The Experimental Immunology Branch (EIB) of the National Cancer Institute (NCI) invites applications for a Staff Scientist position to function as Manager of a Confocal Imaging Facility. Typical applicants will have an advanced degree in immunology, cell biology, or allied fields. The applicant must have extensive experience using laser scanning confocal microscopy, digital imaging, and video microscopy in cell biological applications. The applicant should have a wide range of computer skills that facilitate image capture and analysis, and preferably have some programming skills. The applicant would manage and run a core facility to support the imaging need for the EIB, which is a highly interactive group of about 50 scientists conducting research in molecular and cellular immunology. The applicant will be expected to apply new imaging technologies as they emerge. Salary range is between \$54-70,000 depending on qualifications and experience. Applicants should send curriculum vitae, bibliography, statement of career directions, and three letters of reference to:

> Ms. Karen Augustine National Institute of Health 10 Center Drive Bldg. 10 Room 4B17 MSC 1360 Bethesda, MD 20892-1360

Applications should be postmarked by July 15, 1998.

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HITCHINGS-ELION FELLOWSHIPS

THE CALLED ALACIDON OF Bridging Support for Biomedical Scientists to Engage in Postdoctoral Research Training in the United Kingdom or the Republic of Ireland and to Begin a Faculty Appointment in the United States or Canada.

These fellowships, newly revised for the 1999 award cycle, are intended to help promising researchers in the biomedical sciences and medically oriented behavioral sciences make the critical transition to becoming independent investigators. Fellowships support two years of postdoctoral training in the United Kingdom or Ireland, a transitional year either to complete training abroad or to return to North America for additional postdoctoral training, and two faculty years at a U.S. or Canadian university. Up to five fellowships will be awarded.

Candidates must be citizens or permanent residents of the United States or Canada, hold or expect to receive a M.D. or Ph.D. degree (including all types of medical and scientific doctoral degrees), and generally not have more than 24 months of postdoctoral experience by the application deadline. Candidates with more experience may be considered, if they can demonstrate a clear need to participate in training in the United Kingdom or Ireland. Candidates in the behavioral sciences must be working in areas that have biomedical relevance.

U.K. or Irish host institutions may include universities, medical or veterinary schools, scientific institutes, and government laboratories, but not industrial laboratories. Previous fellows have trained at the University of Cambridge, the University of Oxford, the Medical Research Council, and other leading research institutions.

Program information is available on BWF's website at http://www.bwfund.org

PENNSTATE College of Medicine

POSTDOCTORAL FELLOW

A position is available at the Weis Center for Research in the Laboratory of Dr. William A. Maltese. The Postdoctoral Fellow will study the processing of Alzheimer's B-amyloid precursor protein in mammalian cells using mutant Rab GTPases to assess the roles of specific intracellular trafficking pathways. For additional information see http://www.hmc.psu.edu/physio/faculty/maltese.htm

The successful candidate will have a Ph.D. in cell biology, molecular biology or biochemistry, and be familiar with recombinant DNA techniques, protein expression, cell culture, immunoprecipitation or immunofluorescence. Excellent oral and written communication skills are essential.

The Weis Center is part of the Penn State College of Medicine, providing modern research facilities for 90 faculty and research personnel. The Center is located on the campus of the Geisinger Clinic in Danville, PA. This is a pleasant, semi-rural living environment with convenient access to the major metropolitan areas of New York and Philadelphia.

Interested individuals should send their curriculum vitae and the names and addresses for three references to:

> William A. Maltese, Ph.D. c/o Mrs. Barbara A. Brown Administrative Assistant Henry Hood Research Program Sigfried and Janet Weis Center for Research 100 North Academy Avenue Danville, PA 17822-2601

For your health, the Weis Center for Research of the Pennsylvania State University is a smoke-free campus. AA/EOE



Intellivax International Inc. is an expanding biopharmaceutical company based in greater Montreal, Quebec, Canada. The company was founded on proprietary delivery systems that target vaccines to mucosal surfaces. Our platform technolo gies also have broad potential application for the delivery of medicinals and DNA for vaccination and gene therapy by nasal spray or inhalation. Our lead products, mucosal vaccines for Shigella to protect against dysentery and severe diarrhea, have successfully passed Phase I human clinical trials.

To further develop our platform technologies and expand their application to other enteric, respiratory tract, and sexually transmitted diseases we are currently seeking RESEARCH SCIENTISTS with proven experience in the following fields: BIOCHEMISTRY

Experience in the following areas will be an advantage: development of methods for the isolation, purification, and characterization of protective antigens derived from microorganisms; formulation and characterization of heterogenous complexes of proteins, lipids, or carbohydrates in candidate vaccines using a broad range of state-of-the-art techniques; as well as stability assessment of biopharmaceutical products. Experience with peptide, protein, and/or carbohydrate chemistry would be an asset.

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Candidates will have experience in the growth (cell culture and fermentation), isolation, assay, and purification of bacteria; isolation of protective antigens; animal models of microbial pathogenicity; development of assays for measuring serological and cellular immune responses at mucosal sites.

To qualify, candidates will have a Ph.D. and at least 3 years experience gained in industry or academia in the relevant discipline. Successful applicants must have a proven record of innovative R and D demonstrated by their publication and/or patent record. As an integral member of our research group successful candidates will also have good communication skills.

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Interested candidates should send their résumés and names of 3 references by May 30, 1998, to: Linda Vincent (Administrator) Intellivax International, Inc., 5757 Cavendish Blvd., Côte Saint-Luc H4W 2W8, Quebec, Canada. Tel: 514-487-8715; Fax: 514-487-8977; E-mail: info@intellivax.com.

EUROPEAN OPPORTUNITIES

Roche

Postdoctoral Chemist

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The position

We currently seek an organic chemist with broad interests who is strongly motivated to gain industrial experience.

Who you are

You are a recent graduate with a Ph. D. in Chemistry, with a strong background in organic synthesis. You have experience with current spectroscopic techniques and analytical separation methods. You enjoy independently conducting research projects in the lab. You want to contribute within a team of highly creative chemists and engineers who make the difference. You have excellent communication and interpersonal skills. You can read and speak basic technical German or French and English.

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POSITIONS OPEN

FACULTY POSITIONS DEPARTMENT OF BIOCHEMISTRY AND MOLECULAR BIOLOGY Penn State University College of Medicine

Applications are invited for two tenure-track positions to begin on or after September 1, 1998. We seek individuals who have demonstrated excellence in the areas of structure/function of proteins, focusing on eukaryotic macromolecules of physiological importance. Examples of preferred research emphasis are macromolecular biosynthesis, targeting, processing, and assembly; protein folding; signal transduction; molecular immunology or recognition; homo- and hetero-interactions of proteins; protein--nucleic acid, -carbohydrate, and -drug interac-tions; transcriptional and posttranslational regulation of enzyme activity. Technologies of molecular biology, cell biology and genetics, physical chemistry, and computer modeling are all appropriate for the position. Preference will be given to applicants at the ASSISTANT PRO-FESSOR level although outstanding individuals at the ASSOCIATE PROFESSOR level will be considered. Applicants must have a Ph.D., M.D.-Ph.D., or M.D. and postdoctoral research experience. Successful applicants are expected to establish an independent, extramurally funded research program and to participate in the education of graduate and medical students and programs of the Life Science Consortium of Penn State University. Applicants should send a curriculum vitae, a synopsis of research plans, and the names and addresses of three individuals who will provide letters of reference to: Chair, Search Committee, Department of Biochemistry and Molecular Biology H171, College of Medicine, The Pennsylvania State University, P.O. Box 850W, Hershev, PA 17033. Applications should be submitted by June 1, 1998.

An Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

VETERINARY FISH PATHOBIOLOGIST

The College of Veterinary Medicine at Mississippi State University is seeking nominations and applications for a TENURE-TRACK FACULTY POSITION in fish pathobiology emphasizing microbiology, infectious diseases, or epidemiology, or any combination of these. Primary duties of the successful candidate will involve fish health research on warm-water species. The successful candidate should have an established record or demonstrated potential in original research in warm-water fish health and/or disease research. He/she will be expected to develop or continue an active research program. Preference will be given to candidates capable of using molecular and/or biotechnology to solve complicated research problems. Secondary responsibilities include providing diagnostic and related services for the catfish industry. teaching in the professional and/or graduate program, and other scholarly activities of the Research Program. Required qualifications include training (Ph.D. or equiv alent) in pathobiology, particularly in warm-water fish health. Desirable qualifications include a D.V.M. and Board certification in your specialty or Fish Pathologist certification (AFS-FHS). Salary and academic rank will be commensurate with

Salary and academic rank will be commensurate with training and experience. Please send letters of nomination or applications including curriculum vitae, transcripts, the names and addresses of three professional references, and a statement of career goals to: Dr. A. Jerald Ainsworth, Interim Director, Veterinary Medical Research, College of Veterinary Medicine, Box 9825, Mississippi State, MS 39762-9825. Applications will be accepted until a suitable candidate is found.

BIOCHEMIST

The Department of Medicine, Section of Nephrology, Tulane University School of Medicine is searching for an ASSISTANT PROFESSOR-level Biochemist with background in molecular and cellular biology. Previous experimental experience in the areas of protein isolation and identification, sequencing, and cloning is preferred. Collaborate with other Investigators in a modern, wellequipped laboratory, joining a research team involved in basic studies in hypertension etiology. Excellent salary and benefits. Interested applicants should send an updated curriculum vitae and the names, addresses, and telephone numbers of three references to: Jules B. Puschett, M.D., Department of Medicine, SL12, 1430 Tulane Avenue, New Orleans, LA 70112-2699. Position will remain open until a qualified candidate is selected. *Tulane University is an Equal Opportunity/Affirmative Action Employer*.

POSITIONS OPEN

ASSISTANT PROFESSOR THE UNIVERSITY OF IOWA DEPARTMENT OF MICROBIOLOGY Immunology and Signal Transduction

The University of Iowa, Department of Microbiology, invites applications for a tenure-track Assistant Professor in the area of signal transduction in cells of the immune system. The selected applicant will receive a primary ap pointment in the Department of Microbiology, and will also be a member of a Howard Hughes–funded program in signal transduction. The Department of Microbiology is housed in newly renovated space, and consists of faculty with research efforts in diverse areas, including immunology, virology, pathogenic bacteriology, bacterial physiology, and genetics. The Immunology community at The University of Iowa consists of a collaborative and supportive group of over 30 scientists with primary appointments in both basic and clinical departments, and oversees NIHfunded training programs for both Doctoral and Postdoctoral students. Applicants should possess a Ph.D. or M.D. and several years of postdoctoral experience. The successful applicant will have a record of productivity and peerreviewed publications in English-language journals, and the potential to develop a strong extramurally funded research program in the area of signal transduction as it contributes to immune regulation. The selected applicant will also participate in graduate, undergraduate, and health professions teaching of immunology. Competitive salary and start-up funds will be provided. Applicants should submit a current curriculum vitae, statement of research plans, and names of three references to:

Dr. Gail Bishop Chair, Search Committee (F1489) Department of Microbiology University of Iowa College of Medicine Iowa City, IA 52242

For best consideration, please send materials by July 15, 1998. The University of Jowa is an Affirmative Action/Equal Opportunity Employer. Women and minorities are strongly encouraged to apply.

FACULTY OF HEALTH SCIENCES AND THE DEPARTMENT OF BIOCHEMISTRY MUSCLE GROWTH AND DEVELOPMENT

Applications are invited for a tenure-track position at the rank of **ASSISTANT PROFESSOR** from individuals with a teaching and research focus in muscle growth and development. This is a joint appointment between the Faculty of Health Sciences and the Faculty of Medicine and Dentistry, Department of Biochemistry. Applicants must have a Ph.D. (or equivalent) and appropriate postdoctoral experience. The successful candidate should also be an enthusiastic teacher and will have primary responsibility for undergraduate and graduate-level courses in the biology of human growth and development. The successful candidate will be expected to establish an independent, externally funded research program, and to collaborate with established research program, and to collaborate with established research groups. Individuals incouraged to apply. Experience in techniques pertinent to molecular biology or human molecular genetics as applied to problems in muscle growth and development in health and disease is an asset.

Interested candidates should send their curriculum vitae and the names of three references to: Dr. Angelo N. Belcastro, Dean, Faculty of Health Sciences, c/o Human Muscle Growth and Development Position, Room H124, HSA Building, The University of Western Ontario, London, Ontario N6A 5C1 Canada. Applications accepted until the position is filled.

In accordance with Canadian Immigration requirements, this advertisement is directed to Canadian citizens and permanent residents of Canada. The University of Western Ontario is committed to Employment Equity, welcomes diversity in the workplace, and encourages applications from all qualified individuals including women, members of visible minorities, aboriginal persons, and persons with disability. Positions are subject to budget approval.

Position available immediately for a **PROTEIN CHEMIST** to study structure/function relationships of exocrine proteins. Ph.D. in chemistry, biochemistry, or biophysics preferred. Experience in isolation and characterization of proteins, as well as structure analysis of physical methods including NMR is essential. Send curriculum vitae and three letters of recommendation to: **Dr. Frank Oppenheim, Chairman, Department of Periodontology and Oral Biology, Boston University School of Dental Medicine, 100 East Newton Street, G-217, Boston, MA 02118.**

POSITIONS OPEN FACULTY POSITION IN FOOD SAFETY/EPIDEMIOLOGY

The Department of Veterinary Pathobiology, College of Veterinary Medicine, University of Illinois invites ap-plications for an ASSISTANT, ASSOCIATE, or FULL PROFESSOR (tenure-track or tenured) position in food safety/epidemiology. The successful candidate should have an established record or demonstrated potential in original research in food safety/epidemiology. Preference will be given to candidates with expertise in the application of molecular epidemiology techniques to food-borne disease research. He/she will be expected to develop or continue an active research program and contribute to the professional and graduate teaching programs and other scholarly activities of the Department. The Department of Veterinary Pathobiology has strong research programs in infectious disease epidemiology, microbiology, parasitology, pathology, toxicology, and immunology. Additional information about this position, the Department, and the College can be found at the College website: http:// www.cvm.uiuc.edu/. Rank and salary will be commensurate with qualifica-

Rank and salary will be commensurate with qualifications and experience. A Ph.D. or comparable qualification is required. A D.V.M. degree is desirable. To receive full consideration, completed applications should be received by July 15, 1998. The committee will begin reviewing applications on July 15, 1998. The position is available beginning August 1998; the starting date is negotiable. Send letter of application, résumé, statement of research interests, and names and addresses of three references to: Dr. Ronald D. Smith, Chair, Food Safety/Epidemiology Search Committee, College of Veterinary Medicine, University of Illinois at Urbana-Champaign, 2001 South Lincoln Avenue, Urbana, IL 61802. The University of Illinois is an Affinnative Action/Equal Opportunity Employer.

Mendel Biotechnology is uniquely positioned to conduct world-class science in the area of plant functional genomics and to translate these discoveries into traditional and nontraditional agricultural products. We are seeking individuals with exceptional creativity, motivation, and scientific abilities to join us in this challenging and exciting opportunity.

RESEARCH ASSOCIATE POSITION IN PLANT MOLECULAR BIOLOGY

We are currently seeking an outstanding Research Associate in plant molecular biology. Candidates should have an M.S. or B.S. plus two years of experience in molecular biology. You will work with Senior Scientists to clone, characterize, and functionally analyze plant genes, and will make extensive use of bioinformatics. Experience with gene cloning techniques and molecular biology protocols is essential, and knowledgeable use of sequence analysis software and bioinformatics is highly desirable.

Mendel's state-of-the-art gene discovery and plant growth facilities are situated in the San Francisco Bay area in Hayward, California. Mendel offers an attractive package of salary, benefits, stock options, a 401(k) plan, and an exciting scientific environment. A résumé should be sent to: Dr. Jose L. Riechmann, Mendel Biotechnology, 21375 Cabot Boulevard, Hayward, CA 94545. Email: jriechmann@mendelbio.com. The closing date for applications is June 7, 1998, but applications will be accepted until the position is filled.

ASSISTANT PROFESSOR UNIVERSITY OF FLORIDA Department of Microbiology and Cell Science

The Department of Microbiology and Cell Science at the University of Florida invites applications and nominations for a 12-month tenure-track position as ASSIST-ANT PROFESSOR starting on or about October 1, 1998. Applicants should have a Ph.D. with postdoctoral experience and research expertise in molecular mechanisms of microbial pathogenesis, particularly in the area of host-parasite interactions. The successful candidate is expected to develop a research program supported by extramural funding, to be an active and innovative instructor in undergraduate and graduate courses in parasitology, and supervise Ph.D. graduate students. Send curriculum vitae, description of research interests, and names of five references by August 3, 1998, to: Dr. Howard M. Johnson, Department of Microbiology and Cell Science, P.O. Box 110700, University of Florida, Gainesville, FL 32611-0700. E-mail: hjohnson@micro.ifas.ufl.edu; Telephone: 352-846-0968. The University of Florida is an Equal Opportunity Employer.

Help define the future of miniaturised fluorescence-based assay technology

Post Doctorate Scientists

Competitive Salaries + attractive company benefits

As well as being a world leader in healthcare, SmithKline Beecham is also at the forefront of implementing the key platform technologies of combinatorial chemistry and genomics. In order to support the substantial increases in assay throughput and miniaturisation required to fully exploit these opportunities, SB has made considerable strategic investments in the area of Ultra High Throughput Screening (uHTP screening) technology, particularly using fluorescence-based readout methodologies. A key component of this investment was the formation of a Strategic Alliance between SB and Evotec Biosystems GmbH in 1996 to develop an uHTP screening platform based upon fluorescence correlation spectroscopy (FCS) and related single molecule detection techniques.

Our New Assays Technologies Group, based at Harlow, UK, provides the focus within SB R&D for the development of homogeneous, fluorescence assay strategies that are compatible with these emerging miniaturised uHTP screening technologies. The application of these cuttingedge assay technologies to the characterisation of detailed kinetics and thermodynamics of molecular interactions, as well as to uHTP screening, is a key remit of the Group.

As such, the successful applicants will be involved in the development and implementation of assay systems for the entire range of therapeutic targets encountered within SB's drug discovery programmes. A range of fluorescence techniques (including time-resolved fluorescence energy transfer, fluorescence anisotropy/polarization, and FCS) will be combined with the development of novel fluorescent labelling systems and the characterisation of potential instrument platforms.

As the work is extremely complex and technically demanding, it requires an existing skill set that encompasses biophysics, biochemistry, molecular interactions and, preferably, optics. While the team has a multi-disciplinary approach to the development of novel assay technologies, it is expected that the successful applicants will assume primary responsibility for the initiation and progression of several research projects throughout SB Discovery.

Along with a first degree in chemistry, biochemistry or biophysics followed by a PhD and, preferably, 1-2 years' post-doctoral experience in studies involving fluorescence, it is expected that the applicants will also have a strong scientific background preferably drawn from fundamental studies of biomolecular interactions using optical/biophysical approaches. While an understanding of quantitative biochemistry/ physics is required, it is not necessary to have a pharmaceutical or HTS background.

The ability to be a strong self-starter, an excellent team worker and to have a demonstrable imaginative and quantitative approach via previous scientific work is also necessary.

This is a unique and challenging opportunity to join a team dedicated to defining the global future of fluorescence-based assay technology within a major pharmaceutical company and which is founded upon a detailed understanding of the physical principles underlying fluorescence spectroscopy. In addition, SB is a world leader in the application of FCS and related single molecule detection techniques to a diverse range of Discovery activities. To apply, please send a CV, and full career details, quoting reference NB/MST/09/B on both letter and envelope, to the UK Recruitment Manager, SmithKline Beecham Pharmaceuticals, c/o A.E.P., Suite 6, Silk Mill House, 21 Marsh Parade, Newcastle-under-Lyme, Staffordshire ST5 1BT. Closing date: 22nd May 1998.

For more information on SmithKline Beecham, visit our website at www.sb.com

It is part of our fundamental philosophy at SmithKline Beecham that we recruit, train, develop, reward and promote persons in all job areas solely on the basis of qualifications, skills, abilities and aptitudes. Decisions based on race, colour, age, religion, sex, sexual orientation, disability, ethnicity or national origin are unacceptable to the Company.

New Frontiers for Healthcare





SUPERVISORY MICROBIOLOGIST GS-0403-14 ANNOUNCEMENT # AR1034

The U.S. Environmental Protection Agency (EPA) is seeking qualified candidates for the position of Supervi-sory Microbiologist, GS-0403-14, in the Gulf Ecology Division, National Health and Environmental Effects Research Laboratory. The incumbent will be responsible for providing technical leadership, guidance, and direction to an ecological research program focused on microbial ecology, biogeochemical cycling, and molecular and genetic applications. He/she will be responsible for research planning, development, implementation, evaluation, and reporting of laboratory and field research projects for: (1) development of sampling methods, identification, and quantification of inicroorganism interactions with ecological processes and environmental stressors, (2) for developing comprehensive knowledge of biochemical, physiological, genetic, and molecular mechanisms involved in transformation of cycling of chemicals, nutrients, and other materials in complex estuarine ecosystems, and (3) for potential environmental/human health interactions. This is a permanent, full-time position in Gulf Breeze, Florida. U.S. citizenship is required, and candidates must meet U.S. Office of Personnel Management qualification requirements, including specific educational course work. Salary is commensurate with qualifications and ranges from \$64,998 to \$84,495.

How to apply: All applicants must apply through the U.S. Office of Personnel Management (OPM) by calling the OPM automated jobline, **Telephone: 919-790-2822**, and leave your name, address, and the announcement number (AR1034) of the position you wish to apply for; or accessing OPM via the Internet at website: http://www.usajobs.opm.gov and requesting an OPM application package for Announcement # AR1034. Application materials must be received by OPM no later than June 26, 1998.

EPA is an Equal Opportunity Employer.

PART-TIME MICROSCOPE SALES/SCIENTISTS

Manufacturer of a new, high-resolution optical 3-D nicroscope seeks Microscopists with discretionary time interested in supplementing income through equipment sales and application development. Ideal candidate will continue to perform research in a discipline benefiting from 3-D analysis. Compensation based on ability to develop and publish new applications for technology and to assist in sales of microscopes to other scientists. Send résumé to:

> InGen Corporation 235 Montgomery Street

Suite 300 San Francisco, CA 94104

RESEARCH ASSISTANT PROFESSOR

Research Assistant Professor, tenure-track position available at the Division of Neuropathology as of July 1, 1998, to study prion diseases and neurodegenerative diseases. Expertise in clinical and neuropathological aspects of neurodegenerative diseases, especially prion disease. Experience in prion protein characterization by gel elec-trophoresis. M.D. and Board eligibility in neurology or neuropathology desirable. For further information, contact: Pierluigi Gambetti, M.D., Director, Division of Neuropathology, Institute of Pathology, Case Western Reserve University, 2085 Adelbert Road, Cleve-land, OH 44106. Telephone: 216-368-0587; FAX: 216-368-2546. CWRU is an Affirmative Action/Equal Opportunity Employer.

RESEARCH ASSOCIATE position available for one year to study DNA repair and cellular responses to DNA damage. Position requires a Ph.D. or equivalent and extensive postdoctoral experience in mechanisms and genetics of nucleotide excision repair and transcription-coupled repair. Salary is commensurate with experience and a comprehensive benefits package is available. Please send curriculum vitae by May 18, 1998, to: Ms. Deborah Bachorik, Laboratory for Cancer Research, College of Pharmacy, Rutgers—The State University of New Jersey, 164 Frelinghuysen Road, Piscataway, NJ 08854-8020. FAX: 732-445-0687.

ASSISTANT PROFESSOR BIOLOGY

College Misericordia Biology Department invites you to apply for the position of Assistant Professor available for the 1998-1999 academic year. This full-time (ten-month) position is a oneyear appointment, with the potential for tenuretrack for the 1999-2000 academic year. Duties include teaching human gross anatomy, neurobiology, and physiology to biology pre-med and physical therapy students. A strong commitment to teaching is desirable. Preferential consideration will be given the successful candidate for a tenuretrack position. Individuals with a Ph.D. preferred; however, candidates with plans to finish prior to August 1998 are invited to respond. For confi-dential consideration please send a letter of application, curriculum vitae, statement of teaching philosophy, and three references to: Dr. Frank DiPino Jr., Chair, Biology Department, College Misericordia, 301 Lake Street, Dallas, PA 18612. Telephone: 717-674-6457; e-mail: fdipino@miseri.edu. Review of applications will begin immediately and will continue until position is filled. College Misericordia is located in the Pocono Northeast Region of Pennsylvania approximately two and a half hours from Philadelphia and New York City. Affirmative Action/ Equal Opportunity Employer.

CYTOGENETICS LABORATORY DIRECTOR

Genzyme Genetics is seeking applicants for the position of Cytogenetics Laboratory Director for its Santa Fe, New Mexico facility. Candidates must be American Board of Medical Genetics-certified in clinical cytogenetics. Significant experience in managing a cytogenetics laboratory is required. Interested applicants should submit a letter of interest, curriculum vitae, and a list of references to:

Diane Marbourg, Human Resources Manager Genzyme Genetics 2000 Vivigen Way Santa Fe, NM 87505 FAX: 505-438-2277

Genzyme Genetics is an Equal Opportunity Employer that is proud of the diversity of its work force.

PHYSICIAN-SCIENTIST POSITIONS IN UROLOGIC ONCOLOGY UROLOGIC ONCOLOGY BRANCH National Cancer Institute Opening Date: May 1, 1998 Closing Date: June 30, 1998

The newly established Urologic Oncology Branch, NCI is offering tenure/tenure-track positions in urologic oncology. The Urologic Oncology Branch program involves a combined clinical/basic program in urologic cancers. Candidates must be Urologic Surgeons who have a record that indicates potential for establishment of independent laboratory research programs in urologic malig-nancies with special emphasis in (but not limited to) prostate and bladder cancer. Individuals with expertise in molecular and cellular biology, molecular genetics, or translational investigations are of particular interest. Candidates must also have a commitment to, and demonstrated active interest in, clinical urologic surgery. The position carries with it a support package including technical, postdoctoral support, and supplies budget, which are committed. Salary is negotiable and commensurate with the candidate's level of experience.

Candidates should send a letter of interest, curriculum vitae, bibliography, five letters of reference, and copies of up to three reprints and a statement of the candidate's research program. The completed application should be mailed to:

Ronald Gress, M.D. Chairperson, Search Committee National Cancer Institute 10 Center Drive Building 10, Room 2B47 Bethesda, MD 20892-1501 Telephone: 301-496-6353 FAX: 301-402-0922

NIH is an Equal Opportunity Employer.

POSITIONS OPEN

DIRECTOR, FOOD SAFETY INITIATIVE CENTER FOR FOOD SAFETY AND APPLIED NUTRITION

The Center for Food Safety and Applied Nutrition (CFSAN) is part of the Department of Health and Humman Services, Food and Drug Administration (FDA) and is located in Washington, D.C. The Director, Food Safety Initiative (FSI), will serve as the Center's chief spokesperson on food safety issues and provide senior policy direction for the President's Food Safety Initiative and the Produce and Imported Food Safety Initiative (PIFSI). He/she will manage a coordinated national and internaillness and disease threats in the United States through better coordination, enhanced surveillance systems, upgraded inspection strategies, improved scientific and risk assessment capabilities, and education. This position may be filled in the Senior Executive Service, the Senior Bio-medical Service, or Title 38 for Physicians. The salary range is \$106,412 to \$151,800. Applicants must have an M.D. degree from an approved medical school, or a Ph.D. or equivalent degree in the biological, physical, or health sciences. Candidates must also have training and experience related to food-borne illnesses and infectious diseases, and training and experience in epidemiology, public health, or preventive medicine. For further information about the qualifications contact: Ms. Arlene Karr, Tele**phone:** 301-827-4183. Submit application material by June 26, 1998, to: Arlene Karr, Office of Human Resources and Management Services, Food and Drug Administration, Room 7B-32, HFA-408, Parklawn Building, 5600 Fishers Lane, Rockville, MD 20857.

FDA is an Equal Opportunity Employer. FDA is smoke-free.

University of Florida seeks an ASSOCIATE IN MEDICINE for the Department of Medicine, Division of Rheumatology. Master's degree in an appropriate area of specialization and three years of related professional experience; or a Bachelor's degree in an appropriate area of specialization and five years of related experience. Responsibilities will include molecular techniques such as Southern blotting, Western blotting, electrophoretic mo-bility gel shifts, ELISA and ELISPOT, PCR, immunizations and handling of mice, tissue culture, flow cytometry, ordering supplies, ordering mice, maintaining a breeding colony, also training undergraduate and graduate stu-dents in the laboratory. Salary and benefits commensurate with experience. Recruiting deadline June 6, 1998. Anticipated starting date June 26, 1998. Please submit curriculum vitae to: Dr. Joel Schiffenbauer, Associate Pro-fessor, Division of Rheumatology, Box 100277 JHMHC, Gainesville, FL 32610. An Affinative Action/ Equal Opportunity Employer.

HIV VIROLOGISTS

VaxGen, Inc., founded in 1995 is building a national and international science-driven organization dedicated to the development of an AIDS vaccine. VaxGen is currently expanding its HIV virology program and is seeking exceptionally qualified individuals at the RESEARCH ASSOCIATE and SCIENTIST level to work on problems related to virus infectivity and cellular tropism. The position requires at least two years of hands-on experience with the culture of T-cell tropic and macrophage tropic viruses. Experience with neutralization assays, the construction of chimeric viruses, and molecular analysis would be helpful. VaxGen offers a full benefits and a competitive salary package. Applicants should send a curriculum vitae and the names of three references to: Phillip Berman, Ph.D., VaxGen, Inc., 501 Forbes Boulevard South, San Francisco, CA 94080.

IMMUNOLOGY POSTDOCTORAL POSITION

Fellowship available immediately. Research on protective immunity against influenza virus infection in mice. Includes DNA vaccines, immunity in knockout mice. FDA laboratory located on NIH main campus. U.S. citizenship or permanent residency required. Contact: Dr. Suzanne Epstein, Food and Drug Administration, CBER, OTRR, DCGT, 1401 Rockville Pike, HFM-521, Rockville, MD 20852-1448. E-mail: epsteins@al. cber.fda.gov; Telephone: 301-827-0450; FAX: 301-827.0440 827-0449.



Universiteit Utrecht

Faculty of Chemistry

In the Faculty of Chemistry at Utrecht University, which encompasses a wide scope of research and teaching disciplines ranging from inorganic chemistry to biochemistry, the Bijvoet Center for Biomolecular Research is an established national research center. In the Biivoet Center the study of the mutual interactions of biomolecules constitutes a central theme of research. Specifically, the relation between the structure and the function/activity at the molecular level for biomolecules involved in recognition and regulation processes is studied. The research efforts in the Bijvoet Center are currently focussed on carbohydrates, nucleic acids, proteins and biomembranes. In three divisions of the Center, Nuclear Magnetic Resonance, X-Ray Diffraction and Mass Spectrometry, methodology is developed and applied to problems in structural biology. The other divisions are those of biochemistry of membranes, medicinal chemistry (in cooperation with the Faculty of Pharmacy) and bio-organic chemistry. The research in the latter division currently deals mainly with the structure and design of carbohydrates and glycoconjugates and furthermore with biocatalysis in relation to the conversion of unsaturated fatty acids.

Full professor (F/M) bio-organic chemistry

Position: the position available is in the division of Bioorganic Chemistry. The successful candidate will be expected to perform research into molecular recognition, regulation and/or interaction phenomena of biomolecules. For the development of his/her research line, ample support will be provided. It is expected that the candidate is willing and able to collaborate with the other research groups within the Bijvoet Center, in order to strengthen the international profile and position of the Center in the area of structural biology. As the Bijvoet Center is participating in many (inter)national research collaborations, subsidized by the European Union and other agencies and industries, the successful candidate has to be able to attract external funds as needed to support the proposed research and cooperative research projects. The candidate is expected to become the leader of the division for bio-organic chemistry after the retirement of

the current holder of the chair in 2001. The qualified candidate will be asked to participate in teaching undergraduate and graduate students.

Profile: for this position we are looking for a scientist with: a broad knowledge of bio-organic chemistry and the application of instrumental techniques to establish structure/function relationships; a proven experience in performing and leading high quality scientific research; excellent teaching qualifications; experience in managing and leading a multi-disciplinary research team; a proven record in obtaining external support; experience in collaborative research in an (inter)national context. We expect that the candidate will be willing to take up management and organisational duties for the Bijvoet Center as a whole as well as in a broader context within and outside the university. The age of the gualified candidate has to be less than 45 years. The faculty is making an effort to increase the number of women in leading academic positions. Women are therefore strongly encouraged to apply for this position.

The salary is within the range NLG 122,000 - 191,000 p.a. (US\$ 59.500 - 93,000), inclusive of holiday allowance and health insurance compensation, depending on qualifications and experience.

Information and application: a written application with curriculum vitae and list of publications should be addressed before June 15th, 1998 to the Dean of the Faculty of Chemistry, Sorbonnelaan 16, 3584 CA Utrecht, the Netherlands. Those who may want to provide the names of possible candidates or require additional information about this position should contact Prof.Dr. R. Kaptein, Chairman of the search committee, Department NMR Spectroscopy of the Bijvoet Center, tel. +31 30 253 3787, fax +31 30 253 7623, e-mail kaptein@mmr.chem.ruu.nl. Vacancynumber 64807.

POSITIONS OPEN

POSTDOCTORAL POSITIONS WASHINGTON UNIVERSITY SCHOOL OF MEDICINE NIH Training Program in Diabetes Research

Applications are being accepted for Postdoctoral positions in a multi-investigator program to study diabetes and related endocrine diseases. Trainees will be offered opportunities in the following areas: cellular mechanisms in insulin secretion, insulin action, β -cell growth, autoimmunity, the role of nitric oxide and cytokines, vascular and neurological complications, glucose transporters, biology of aldose reductase, and regulation of gene expression. U.S. citizenship or permanent resident status is required. Salary on NIH scale. Curriculum vitae and three letters of recommendations are required. For information, please contact: Dr. Michael L. McDaniel, Box 8118, Washington University School of Medicine, Department of Pathology, St. Louis, MO 63110. Telephone: 314-362-7435; FAX: 314-362-4096; e-mail: mcdaniel@ pathology.wustl.edu. Affinnative Action/Equal Opportunity Employet.

A SENIOR SCIENTIST position is available in the laboratory of Donald Nuss, Director of the Center for Agricultural Biotechnology, University of Maryland Biotechnology Institute. The successful candidate will perform and help supervise research on hypoviruses and signal transduction underlying fungal pathogenesis. Qualifi-cations include a Ph.D.; two to three years of postdoctoral experience in the areas of molecular virology, molecular mycology, and plant pathology; and good technical, writing, and interpersonal skills. Salary commensurate with experience. The position is full-time, non-tenure-track. Applicants should send curriculum vitae, names of three references, and a summary of research accomplishments by June 1, 1998, to: Senior Scientist Position, Center for Agricultural Biotechnology, University of Mary-land Biotechnology Institute, Plant Sciences Building, Room 5115C, College Park, MD 20742-4450. The University System of Maryland is an Equal Opportunity/ Affirmative Action Employer.

RESEARCH SCIENTIST. The Clinical Branch of the National Eye Institute, National Institutes of Health, has an immediate position for a Research Scientist. Areas of laboratory investigation will include the role of cell adhesion molecules, costimulatory molecules, and cytokines in ocular inflammatory diseases caused by autoimmunity or allergy. Research will also encompass the immunologic analysis of specimens from patients with ocular inflammation.

Candidates should have a Ph.D. or M.D.-Ph.D. degree and experience in cellular or molecular immunology.

Please send your curriculum vitae and three references to the following address by June 1, 1998: Scott M. Whitcup, M.D., National Eye Institute, National Institutes of Health, 10/10S221, 10 Center Drive—MSC 1863, Bethesda, MD 20892-1863. FAX: 301-496-7295.

NIH is an Equal Opportunity Employer.

NIDA training grant-supported **POSTDOCTORAL POSITION** is available immediately to study mechanisms of modulation of neuronal calcium channels. Individuals with experience in either molecular biology or electrophysiology are encouraged to apply. Send a curriculum vitae with names and addresses of three references to: Dr. María A. Diversé, Department of Pharmacology, Box 1215, Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029. *Applicants must be U.S. citizens or permanent residents.*

POSTDOCTORAL/RESEARCH ASSOCIATE position(s) are available immediately to study oxidative stress as it relates to aging using both insect and murine models. A Ph.D. degree or equivalent laboratory experience is required, with extensive training in molecular biology and/or biochemistry. Please send curriculum vitae and names of at least three references to: **Dr. William. C. Orr** or **Dr. R. S. Sohal, Department of Biological** Sciences, Southern Methodist University, Dallas, TX 75275-0376. FAX: 214-768-3955.

POSTDOCTORAL POSITION NEUROBIOLOGY

Studies on pattern formation and axon, target interactions in the *Drosophila* visual system (see: *Cell* **78**:437; *Cell* **86**:411). Send curriculum vitae and references to: **Prof.** Sam Kunes, Room 433, Fairchild Building, 7 Divinity Avenue, Harvard University, Cambridge, MA 02138. E-mail: kunes@husc.harvard.edu.

ENVIRONMENTAL SCIENTIST

The Intergovernmental Panel on Climate Change (IPCC) Working Group II Technical Support Unit (TSU) seeks a candidate to manage and participate in climate change impacts assessments. For a complete job description access website: www.ucar.edu/cc.html or call the University Corporation for Atmospheric Research (UCAR) Job Line at Telephone: 303-497-8707. Applications must be received by 5:00 p.m. on May 29, 1998. UCAR, the administering entity for the IPCC Working Group II TSU, is an Equal Opportunity Employer.

MOLECULAR DIAGNOSTICS/ CLINICAL CHEMISTRY Florida Gulf Coast University

Assists in curriculum; accredited self-study; policy, procedure, and course development; and student recruitment as well as teaching, service, and scholarly activities. Required: doctorate and molecular diagnostics/clinical chemistry experience; CLS experience; national certification; and Florida-licensed or -eligible. 12-month multiyear appointment basis. Starting date negotiable. Submit two packages, including a letter of interest, curriculum vitae, and list of five references postmarked by June 15, 1998, to: Florida Gulf Coast University, Human Resources Department, Position #12401, 10501 FGCU Boulevard South, Ft. Myers, FL 33965-6565. For additional information, call our jobline, Telephone: 941-590-1111 or visit our website: http://admin.fgcu. du/hr/index.html; e-mail: crenk@fgcu.edu. An Equal Opportunity/Equal Access/Affinmative Action Institution.

Vical Inc., a leader in the development of gene-based pharmaceutical products for human gene therapy, has an immediate opportunity for the following:

ASSAY DEVELOPMENT MANAGER

The ideal candidate will develop and evaluate assays for use in characterization of plasmid DNA products. Will also develop appropriate ELISAs, other immunoassays, and transfection assays for analysis of product potency. Requires a M.S./Ph.D. in immunology, cell biology, or molecular biology and five years of experience in pharmacentical development. Experience in immunoassays, transfection, assay development, and knowledge of clinical product development is required.

Please send your résumé to: Human Resources, Vical Inc. (Code: 1084), 9373 Towne Centre Drive, Suite 100, San Diego, CA 92121. FAX: 619-646-1350. Equal Opportunity Employer/Minorities/Females/ Diabled/Veterans.

POSTDOCTORAL POSITIONS in virology. The Division of Molecular Virology at Baylor College of Medicine seeks qualified Postdoctoral Fellows. The 27 faculty have diverse interests including mechanisms of viral replication, gene expression, transformation, pathogenesis, and structure. For information and open positions see website: http://www.bcm.tmc.edu/ molvir/. To pursue a position, directly contact the relevant faculty. Some positions require U.S. citizenship or permanent residency. Baylor College of Medicine is an Equal Opportunity/Affirmative Action/Equal Access Employer.

POSTDOCTORAL OPENINGS. (1) Molecular analysis of mannose transport and metabolism in human diseases; (2) biochemical, molecular analysis of glycosyl transferases in *Golgi*. Ph.D. and experience in cellular, molecular, or metabolic glycobiology, radiolabeling, and glycoconjugate analysis. Experience in cell biology, enzymology preferred. Fluent English. Outstanding scientific environment. Curriculum vitae, three references to: Dr. Hudson Freeze, The Burnham Institute, 10901 North Torrey Pines Road, La Jolla, CA 92037.

POSTDOCTORAL POSITION available immediately to study the role of the male reproductive tract in HIV disease. Experience in RT/PCR, cloning, and sequencing required; knowledge of histology/cytology preferred. Send curriculum vitae, names of three references, and a brief description of research experience to: Dr. Ann Kiessling, Laboratory of Reproductive Biology, Department of Surgery, Beth Israel Deaconess Medical Center, Harvard, 4 Blackfan Circle, Room 243, Boston, MA 02115.

POSITIONS OPEN

ASSOCIATE RESEARCH SCIENTIST

The Division of Environmental Health Sciences at the Columbia School of Public Health seeks a new Junior faculty member in the field of air pollution exposure assessment. The successful candidate will join a multidisciplinary team of scientists engaged in research addressing exposures to indoor and outdoor air contaminants in New York City, and the relationship between these exposures and adverse health outcomes. Responsibilities also will include developing and teaching a new graduate-level course in this topic area. Candidates must have a doctorate in environmental sciences, exposure assessment, public health, or related discipline, with demonstrated research experience in the measurement, assessment, and interpretation of airborne and/or dust-borne pollutants. This is a three-year, non-tenure-track position, with a possible option to convert to the level of Assistant Professor on the tenure track. Interested applicants should send résumés to: Dr. Joseph H. Graziano, Division of Environmental Health Sciences, Columbia School of Public Health, 60 Haven Avenue, B-106, New York, NY 10032. Columbia University is an Equal Opportunity/ Affirmative Action Employer and welcomes applications from qualified women and minority candidates.

DIRECTOR OF ENVIRONMENTAL SCIENCE DIVISION

Direct the organization's research and provide scientific support to its divisions. Qualifications: commitment to conservation of environmental quality and natural resources; Ph.D. in ecology or related field, with experience in aquatic ecology/hydrology; strong scientific background and experience in specialty area and in conservation of ecosystems and natural resources locally and regionally; supervisory and team building skills; excellent written and oral communication skills; demonstrated ability to communicate technical concepts to broad range of audiences; strong organizational abilities; successful experience in writing and administering grants and contracts; develop and manage budgets. Send application letter highlighting relevant experience and interest, curriculum vitae, writing sample, and three references to: Human Resources Director, The Conservancy of Southwest Florida, 1450 Merrihue Drive, Naples, FL 34102. Salary: commensurate with qualifications and experience. Equal Opportunity Employment; drug-free workplace.

NIH-supported POSTDOCTORAL POSITIONS are available for Molecular-Cellular Biologists in Molecular and Structural Neurobiology and Gene Therapy Program at SUNY, Buffalo. One position is for studying regulation of the FGF-2 gene expression and requires experience in DNA constructions, mutagenesis, DNA structure analysis, DNA-protein binding assays, cloning of transcriptional factors, and expression of recombinant genes in mammalian cells. The second position is for studying intracellular signaling by nuclear FGF receptors and involves DNA constructions; protein tagging and mutagenesis; expression of recombinant proteins in brain cells using plasmid transfection, infection of recombinant HSV1, and transgenic mice technology; and studying protein-protein interactions by yeast two-hybrid and in vitro assays. Send curriculum vitae, summary of research experience, and names of three references to: Dr. Michal K. Stachowiak, Department of Anatomy and Cell Bi-ology, School of Medicine, SUNY, 317 Farber Hall, Buffalo, NY 14214-3000. FAX: 716-829-2915; email: anatomy-cellbiology@acsu.buffalo.edu.

NIH-funded **POSTDOCTORAL POSITIONS** are available to study cytokine signal transduction and a new cytokine-inducible transcription factor with oncogenic potential. Candidates with background in molecular biology and/or biochemistry should send their curriculum vitae plus names and addresses of three references to: Dr. Yu-Chung Yang, Indiana University School of Medicine, 1044 West Walnut Street, R4-272, Indianapo lis, IN 46202. Telephone: 317-274-7512; FAX: 317-274-0396; e-mail: ycyang@iupui.edu.

POSTDOCTORAL FELLOWSHIP available to study signaling pathways that regulate programmed cell death in kidney and liver cell lines. References: *JBC*, **273**: 4027, 8483 (1998). Primary interest is in actions of cytokines and oxidative stress. *The Fellourship requires U.S. citizenship or permanent residence status*. Send applications to: **Dr. John R. Williamson, Department of Biochemistry and Biophysics, University of Pennsylvania, Philadelphia**, **PA 19104. FAX: 215-898-9918; e-mail: johnrwil@ mail.med.upenn.cdu.** *Equal Opportunity Employer.*



DLO - Centre for Plant Breeding and Reproduction Research (CPRO-DLO) is one of the largest and most innovative plant breeding research institutes in the world. It is based in Wageningen in the Netherlands, well known for its research in agriculture, environment, and life sciences in general. With an annual turnover of 25 million \$ in the public and private sector, and over 450 employees, CPRO-DLO offers a very attractive working environment for highly motivated people.



plant molecular biologist

Genetics & Quality: Important steps forward in Quality for Consumers and Industry

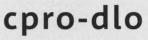
Your Task: Food, feed and green commodities play an important role in today's society. Many quality characteristics of these products are under genetic control. At CPRO-DLO, we are investigating how we can improve the quality using state of genetic analysis tools. Recently the Department of Arable & Forage Crops has set up a new strategic initiative on cell wall synthesis and related quality characteristics, in particular fibre development. The plant species we are working with are flax and rye grass.

Your Profile: For this project we seek an outstanding young molecular biologist at PhD level with a strong background in plant molecular biology, in particular gene isolation and preferably also in plant transformation. In addition to general cell and molecular biology expertise, candidates should possess excellent communication skills, a strong customer orientation and the ability to operate in a multi-disciplinary and international environment.

Our Offer: We offer an excellent compensation package including a competitive salary and comprehensive benefits. The position will be initially opened for a period of 2.5 years, and supported with a research assistant. Clear and genuine career development opportunities exist within the research group and the institute for individuals who are able to carry out the project in a successful way, both from a scientific and a business development point of view.

Your Application: If your background, personal experience and ambitions fit with this profile, please send your complete application (including a CV, a brief description of your research experience, a list of publications and names of at least 2 referees) under reference number 98.02.AKVO.09 to Mrs J.M. Peters, Personnel Department, CPRO-DLO, P.O. Box 16, NL-6700 AA Wageningen, the Netherlands. The closing date is May 29th 1998. For further information contact Dr J. Hoogendoorn (Phone:+31-317-477012, email j.hoogendoorn@cpro.dlo.nl) or Dr H.J.P. Marvin (Phone: +31-317-477055, email h.j.p.marvin@cpro.dlo.nl).

N.B. Applications by email will not be accepted.



POSTDOCTORAL RESEARCH on anoikis and E1a. Investigate the mechanisms underlying integrins' control of apoptosis ("anoikis") and Ela's epithelial master-programming/tumor suppression effects. Relevant background desirable. Contact: Dr. S. Frisch, The Burnham Institute, La Jolla, CA 92037. FAX: 619-646-3199; email: sfrisch@ljcrf.edu.

POSTDOCTORAL POSITIONS IN MOLECULAR VIROLOGY

Postdoctoral positions are open immediately in two retrovirology laboratories (C.-Z. Giam and C. C. Broder) to study (1) the mechanisms of action of the HTLV-I transcriptional activator, Tax, and the biological and transforming properties of the HTLV-I, or (2)structural and functional analyses of the interactions between enveloped viruses (HIV/SIV) and their cellu-lar receptors. The HTLV-I research focuses on the interactions between Tax and the cellular transcriptional machinery, and the activation of cellular signaling pathways by Tax. The HIV/SIV efforts focus on defining important structural elements in envelope and the receptors and their roles in membrane fusion: and investigations on the consequences of envelope oligomerization and glycosylation on function and antigenic struc-ture. See: Tie, F. et al., J. Virol. 70:8368, 1996; Broder, C. C. and R. G. Collman, J. Leukoc. Biol. 62:20, 1997; Earl, P. L. et al., J. Viol. 71:2674, 1997. A Ph.D. in biochemistry, molecular biology, or cell biology is re-quired. Experience in eukaryotic transcription factors, protein kinases, T-cell biology, monoclonal antibody development, or classical virology will be a plus. Salary is commensurate with experience. Send letters of application, curriculum vitae, and names of three references to: Human Resources, Reference PL2970492 (Giam) or PL2980012 (Broder), Henry M. Jackson Foun-dation for the Advancement of Military Medicine, 1401 Rockville Pike, Suite 600, Rockville, MD 20852. FAX: 301-424-5771; website: www.hjf.org. Affirmative Action/Equal Opportunity Employer.

DIVISION OF STRESS NEUROBIOLOGY DEPARTMENT OF PSYCHIATRY Allegheny University of the Health Sciences

POSTDOCTORAL POSITIONS are available in the laboratories of Dr. Sheryl Beck and Dr. Rita Val-entino to study the neurobiology of the stress response and pathophysiology of stress-related psychiatric disor-ders. The investigative approaches used include cellular and molecular neurobiology (e.g., intracellular recording in slice or whole cell preparations, in situ hybridization), pharmacological (e.g., receptor autoradiography, receptor-effector coupling), and systems-level (e.g., functional neuroanatomy, *in vivo* electrophysiology). Applicants should have a Ph.D. in neuroscience, pharmacology, or related field and expertise in one of the above approaches. Send a letter of interest, names of three references, and curriculum vitae to: Dr. Rita J. Valentino, Director of the Division of Stress Neurobiology, Department of Psychiatry MS 403, Allegheny University of the Health Sciences, Broad and Vine Streets, Philadel-phia, PA 19102. E-mail: valentinor@auhs.edu. Equal Opportunity Employer.

POSTDOCTORAL and RESEARCH TECHNI-CIAN positions are available to study cellular immune responses or the evolution of drug resistance during HIV and SIV infection. Projects include the development of novel nucleic acid analysis technologies to improve the study of complex viral and T-cell populations. Experience in virology or immunology required. Send curriculum vitae to: Dr. Eric Delwart, Aaron Diamond AIDS Research Center (an affiliate of Rockefeller University), 455 First Avenue, New York, NY 10016. FAX: 212-725-1126; e-mail: delwart@adarc.org.

Dartmouth Medical School POSTDOCTORAL PO-SITION available to study nutrient regulation of protein phosphorylation and the AMP-activated protein kinase family. Background in molecular biology and protein biochemistry required. Send curriculum vitae and names of three references to: Dr. Lee A. Witters, Dartmouth Medical School, Remsen 322, Hanover, NH 03755-3833. FAX: 603-650-1727; e-mail: lee.a.witters@dartmouth.edu. Dartmouth is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

POSTDOCTORAL POSITIONS AT SANDIA NATIONAL LABORATORIES

The Chemical and Radiation Detection Laboratory at Sandia National Laboratories in Livermore, California, is a multidisciplinary state-of-the-art facility established to develop advanced sensing methods for trace chemical and biological compounds. By combining Sandia's expertise in chemistry, physics, biology, and engineering, solutions are being developed for environmental, forensic, defense, and public safety needs that face the nation. Positions are now available for Postdoctoral Associates to work on a significant research program directed at advancing chemical sensing techniques. Areas of research include development/fabrication of Microscale Total Analytical Systems (µ-TAS); capillary-based chemical separation (electrophoresis; electrochromatography; affinity chromatography); chemical detection by optical, electrochemical, and mass spectrometric methods; and study of microfluidic processes.

Desirable applicants will have a Ph.D. with a broadbased background and extensive knowledge in one or more of the following areas: chemistry (analytical, physibiological/protein), fabrication of microsystems (MEMS), optics, physics, or materials science. Creative, self-motivated candidates with excellent academic and research qualifications who enjoy working in a team-oriented environment should submit a résumé, publication list, and reference list to:

Sandia National Laboratories c/o Anna Isham, MS 9111 Human Resources Department-CA0047 P.O. Box 969 Livermore, CA 94551-0969

U.S. citizenship is normally required. Sandia National Lab-oratories is an Equal Opportunity Employer/Affirmative Action Employer.

POSTDOCTORAL POSITION SIGNALING BY PI 3-KINASES

Funded Postdoctoral positions are available immediately to study signal transduction by PI 3-kinases, lipid kinases that are implicated in cancer and diabetes. Major projects in the laboratory include determination of the role of distinct PI 3-kinase isoforms in mitogenic signaling and cellular motility, using isoform-specific inhibitory antibodies; the role of lipid kinases in the regulation of vesicular trafficking; and structure/function studies on the p85/p110 PI 3-kinase. Further information at website: http://www.aecom.yu.edu. Albert Einstein Col-lege of Medicine is located in a pleasant residential community, near to Westchester County. Experience in molecular biology or cell biology is required. Please send curriculum vitae and have letters of reference sent to: Dr. Jonathan M. Backer, Department of Molecular Phar-macology, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1300 Morris Park Avenue, Bronx, NY 10461. Telephone: 718-430-2153; FAX: 718-430-8922.

Equal Opportunity Employer.

POSTDOCTORAL SCIENTIST

Recent Ph.D. with experience in molecular biology and hybridoma technology to fill a two-year, NIH-funded position investigating the formation of antibodies to discrete sites on the NDMA-type glutamate receptor subunits. Will require experience with transient in vitro expression systems and with creating and characterizing the reactivity and specificity of murine monoclonal antibodies by immunological and functional techniques. Please send date of availability, curriculum vitae, and names of three references to: Mr. Robert Shaw, Spring Valley Laboratories, Inc., P.O. Box 242, Woodbine, MD 21797. E-mail: springvall@aol.com.

AIDS research POSTDOCTORAL FELLOW-SHIPS. The University of California School of Medicine, San Francisco is offering Postdoctoral Fellowships for AIDS-related research to prepare Physicians for a career in basic research focusing on the biologic, immunologic, and molecular features of HIV infection. Applicants must possess an M.D. or equivalent degree, must be a U.S. citizen or permanent resident, and have prior experience in laboratory-based research. Write for application package: Christine Beglinger, Division of Hematology/Oncology, Department of Medicine, University of California, San Francisco, San Francisco, CA 94143-1270. Minorities encouraged.

POSTDOCTORAL POSITION available to study Pax gene regulation of cardiac and muscle development. Experience with knockout and transgenic mice preferred. Send curriculum vitae and names of three references to: Jonathan Epstein, Stellar Chance 809, University of Pennsylvania, 422 Curie Boulevard, Philadelphia, PA 19104. E-mail: epsteinj@mail.med.upenn. edu.

POSTDOCTORAL RESEARCH ASSOCIATES

Several Postdoctoral positions in physical biochemistry and molecular biophysics are available immediately. Candidates will have interest in structural dynamics, thermodynamics, and enzymatics of protein-DNA and protein-RNA interactions; structure-function relationships of transmembrane proteins, including G protein-coupled receptors, which are involved in signaling; and the mecha-nism of action of the human tissue factor/factor VIIa complex, which is involved in initiation of blood coagulation. The research combines experiment and theory, emphasizing time-resolved fluorescence spectroscopy, molecular dynamics simulations, and quantum chemical calculations. Candidates will have access to excellent computational and molecular modeling facilities, and to a high-quality time-resolved fluorescence spectroscopy laboratory. Applicants should have a strong background in theoretical biophysics and/or biophysical chemistry. We offer an excellent salary and benefits package. Please

send curriculum vitae and names of three references to: Br. Roman Osman, Department of Physiology and Biophysics, Box 1218, or Dr. J. B. Alexander Ross, Department of Biochemistry, Box 1020, Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574. E-mail: osman@inka.mssm. edu, ross@inka.mssm.edu. For more details on faculty members and research opportunities at Mount Sinai School of Medicine, please see our website: www. mssm.edu. We are an Equal Opportunity Employer fostering diversity in the workplace.

Several POSTDOCTORAL POSITIONS are available immediately to work in the Laboratory of Molecular and Developmental Biology in the National Eye Institute, National Institutes of Health. The research involves developmentally regulated, tissue-specific expression of multifunctional enzyme and crystallin genes in the lens and/or cornea as well as other tissues. This group is also investigating the multiple functions and disease associations of these enzyme-crystallins. Mice, zebrafish, and several invertebrates are presently being used. Methodologies include cloning, expression and molecular analyses of cDNAs and genes, and production and utilization of transgenic mice, gene knockout mice, and transfected cells. Candidates must be U.S. citizens or permanent residents and have a Ph.D. or M.D. degree. Salary begins at \$30,000 and increases depending on experience. Please send curriculum vitae and the names of three references to: Dr. Joram Piatigorsky, Laboratory of Molecular and Developmental Biology, Building 6, Room 201, Be-thesda, MD 20892-2730. E-mail: joram@helix.nih. gov

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POSTDOCTORAL POSITION supported by NIH to study $InsP_3$ receptor molecular biology and regulation, focusing on the mechanism by which the ubiquitin/proteosome pathway leads to InsP₃ receptor down-regula-tion (see: *J. Biol. Chem.* **269**:7963, **270**:11678, and **271**: 16652). Experimental approaches will include cloning, receptor mutagenesis, protein purification, and analysis of cell signaling pathways. Experience in one or more of these areas is required. Please apply with curriculum vitae and three letters of reference to: Dr. Richard J. H. Wojcikiewicz, Department of Pharmacology, SUNY Health Science Center at Syracuse, 750 East Adams Street, Syracuse, NY 13210 USA. FAX: 315-464-8014; e-mail: wojcikir@vax.cs.hscsyr.edu.

POSTDOCTORAL POSITION available immediately in biochemistry/molecular biology. The research work will involve basic research on glycosyltransferases, glycosidases, and biomedical applications of synthetic gly-Coconjugates. Send curriculum vitae to: Dr. P. George Wang, 373 Chemistry, Wayne State University, Detroit, MI 48202-3489. Website: alien.chem.wayne. edu. Wayne State University is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are encouraged to apply.

HEAD OF RESEARCH INFORMATION MANAGEMENT AND IT

Basel, Switzerland

Attractive package

F. Hoffman la Roche is one of the world's leading pharmaceutical companies with a powerful discovery research and development base in a large range of therapeutic areas, an enviable pipeline of new medicines and a strong global marketing, sales and distribution network.

The Company has an excellent and sustained record of high investment in R&D, where the growth of these activities have been synonymous with expansion of the global R&D Information Management and the IT associated with it.

We now seek a seasoned professional to take on the responsibilities of the newly created role of Head of Research Information Management and IT in leading a team of over 90 scientists and IT experts in support of the R&D activities in the CNS, CV and Anti-infectives areas at the Company's headquarters in Basel.

Reporting to the Global Head of Research Information Management and IT, key tasks will include the review of all existing scientific database systems in areas such as chemistry, biology, high throughput

technologies and genomics, to identify and to implement integration of databases, optimisation of data warehousing and retrieval using state-ofthe-art servers and providing input to global standardisation of these.

Candidates for this senior and high profile role in the Company's R&D effort will have an appropriate academic background in a life science, chemistry or biochemistry, coupled with pharmaceutical industry R&D experience at senior level and involving expertise in scientific computation and, most importantly, a proven track record of managing Information Management and IT for life science research.

Please contact Dr Peter Banks at Euromedica, London for further information or a confidential discussion.



Euromedica plc, 7 Heron Quays Docklands, London E14 4JB. UK Tel 44-(0)171 538 5164 Fax 44-(0)171 538 8362 E-mail: Peter_Banks@euromedica.com

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INSTITUT FÜR MOLEKULARE BIOTECHNOLOGIE E.V.

Eine Einrichtung der Wissenschaftsgemeinschaft Gottfried Wilhelm Leibniz e. V.

The Institute of Molecular Biotechnology e. V. (IMB) in Jena, which is funded by both the State of Thuringia and the German federal government, invites applications from young scientists for two

group leader positions

in the field of bioinformatics and molecular modeling. Both positions are tenable for five years.

The successful candidates will each be given the opportunity to establish an independent research group, and will be expected to be active in raising their own additional funding. Internal support in the form of investments and personnel is available. The research program should strengthen the institute's research activities. The salary will be according to the BAT-O lb/la pay scale.

The IMB is currently comprised of 11 independent research groups working in the fields of structural biology, genomics, evolutionary biotechnology, biochemistry, and molecular biology (see http://www.imb-jena.de). The institute offers an excellent research infrastructure within a lively, multidisciplinary campus in the town of Jena, set in the heart of the picturesque countryside of Thuringia.

Applications, including the names of three referees, should be sent to the Scientific Director of the IMB (Tel.: +49 3641 656 333, Fax: +49 3641 656 335,

e-mail: diekmann@imb-jena.de). The review process is scheduled to begin June 2, 1998.

imb Institute for Molecular Biotechnology, P.O. Box 100813, D-07708 Jena, Germany.

Max-Planck-Institut

für Psychiatrie Deutsche Forschungsanstalt für Psychiatrie

The Max-Planck-Institute of Psychiatry in Munich, Research Group of Prof. Landgraf, is looking for post-doctoral scientists with expertise in

> BEHAVIOURAL NEUROGENETICS BEHAVIOURAL NEUROENDOCRINOLOGY

Our laboratory is interested in revealing genetic and neuroendocrine correlates of psychiatric disorders such as anxiety using a novel animal model. The multidisciplinary approach combines molecular biology, neuroendocrinology and behavioural techniques, including quantitative trait loci, in-situ hybridization, microdialysis, receptor characterization and cognition and emotionality models. The posts represent and excellent opportunity to be involved in an exciting field of research with clinical contact and exceptional facilities. Experienced and productive candidates will have the opportunity of setting up their own group, including a graduate student and a technician.

Applications should be addressed to Max-Planck-Institute of Psychiatry, Personnel Office, Kraepelinstr. 2-10, 80814 Munich, Germany

You will get further information from our homepage: http://www.mpipsykl.mpg.de.

POSITIONS OPEN

POSTDOCTORAL POSITIONS IN MOLECULAR IMMUNOLOGY AND VIROLOGY

Three Postdoctoral positions are available immediately to investigate antiviral CTL development using MHCtetramer technology or viral evasion strategies focused on regulation of cellular apoptotic mechanisms. Experience in cellular immunology, molecular biology, or signal transduction desirable. *Preference will be given to U.S. citizens and pennanent residents*. Send curriculum vitae and names of three references to: Dr. John Altman or Dr. Linda Gooding, Department of Microbiology and Immunology, Rollins Research Center, Emory University School of Medicine, Atlanta, GA 30322. E-mail: altman@microbio. emory.edu, gooding@microbio.emory.edu. *Equal Employment Opportunity*.

POSTDOCTORAL POSITION IN TUMOR PROTEIN BIOCHEMISTRY

The Pacific Northwest Cancer Foundation is conducting research relevant to human prostate and brain cancer with the ability to move bench science into the clinic through a biotechnology affiliate. An excellent opportunity for basic research with direct, short-term application to developing immunotherapeutics for human cancer. Requires expertise in protein purification and biochemistry. Experience with viral and eukaryotic expression systems crucial. Send curriculum vitae including references to: Michael L. Salgaller, Ph.D., Member, Pacific Northwest Cancer Foundation, 120 Northgate Plaza, Suite 219, Seattle, WA 98125. FAX: 206-368-3009; e-mail: mls@nwbio.org.

UNIVERSITY OF COLORADO HEALTH SCIENCES CENTER

POSTDOCTORAL POSITION open to investigate transgenic mouse models of heart failure, specifically the physiological and biochemical effects of cardiac-directed gene overexpression. Extensive experience with receptor binding assays, Western, Northern (or RPAs), and Southern blotting is required. Experience with physiological assessment of cardiac function is highly preferred. Send letter of interest, curriculum vitae, and three letters of recommendation to: Dr. David Port, University of Colorado Health Sciences Center, Division of Cardiology B139, 4200 East 9th Avenue, Denver, CO 80262. The UCHSC is an Equal Opportunity Employer.

POSTDOCTORAL ASSOCIATE POSITIONS

Two positions will be available (spring/summer 1998) to study molecular aspects of retroviral DNA integration, and the structure and function of retroviral integrases. A Ph.D. with training in chemistry, biochemistry, or retrovirus biology is required. Please send curriculum vitae and have at least two letters of recommendation mailed to: Dr. A. M. Skalka, c/o Human Resources Department, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. A summary of our research program and information about Fox Chase can be found at the Fox Chase website: http://www.fccc.edu. *Equal Opportunity Employer*.

POSTDOCTORAL POSITION. A position is immediately available at the Joslin Diabetes Center and Harvard Medical School. Research is based on discoveries made by the laboratory concerning the regulation of and roles for a critically important regulator of oxidative stress, glucose 6-phosphate dehydrogenase. Tissue culture, protein biochemistry, cell biology, immunofluorescence, and molecular biology techniques are used. Funding for this position is available through an NIH-sponsored grant.

Send curriculum vitae, cover letter, and three reference letters to: Dr. Robert C. Stanton, Chief, Renal Division, Joslin Diabetes Center, Boston, MA 02215. FAX: 617-732-2654; e-mail: rstanton@ joslin.harvard.edu.

POSTDOCTORAL POSITION. University of California, Los Angeles, Department of Chemistry and Biochemistry and the UCLA-DOE Laboratory of Structural Biology. A funded position is available immediately for structure-activity studies of proteins and protein-nucleic acid complexes. Projects under investigation involve protein expression, purification, and structure determination by NMR. Experience in NMR is required. Send curriculum vitae and the names of three references to: Dr. Robert Clubb, UCLA, Molecular Biology Institute, Box 951570, Los Angeles, CA 90095-1570. FAX: 310-206-4749; e-mail: rclubb@mbi.ucla.edu.

POSITIONS OPEN

POSTDOCTORAL RESEARCH ASSOCIATE POSITION

Postdoctoral Research Associate to participate in epidemiological study of body composition and cardiovascular disease risk factors. Primary focus is analyzing data collected in ongoing Fels Longitudinal Study and to collaborate on manuscripts. Opportunities exist for expanding the scope of the research. Doctorate required by starting date in epidemiology, sports medicine, biostatistics, exercise physiology, human biology, nutrition, genetic epidemiology, or a related field. Analytical background preferred. Ability to work independently and cooperatively within a team of established Investi-gators is essential. Current interests within team relate to role of changes in body composition over the life span in the development of cardiovascular disease. Review begins July 1, 1998. Open until filled. Apply to: Chair, Postdoctoral Search Committee, Division of Hu-man Biology, Wright State University School of Medicine, 1005 Xenia Avenue, Yellow Springs, OH 45387. FAX: 937-767-6922; website: http://www. med.wright.edu/som/academic/divhum/divhum. html. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIPS IN BIOCHEMISTRY, CELL AND DEVELOPMENTAL BIOLOGY

Funded positions are available to study (i) the role of O-glycosylation in development using either mouse or zebrafish model systems; and (ii) the mechanisms that regulate the expression and activity of the enzymes responsible for initiating O-glycosylation. Candidates should have a strong background in molecular biology, embryology, or glycobiology. *Candidates must be U.S. citizens or have resident alien status*. Please send your curriculum vitae, a statement of career goals, and two letters of recommendation to: Dr. Lawrence A. Tabak, Director, Center for Oral Biology, University of Rochester Medical Center, Box 611, 601 Elmwood Avenue, Rochester, NY 14642. E-mail: lawrence_tabak@urm.crochester.edu. An Equal Opportunity/Affimative Action Employer.

UNIVERSITY OF COLORADO CANCER CENTER DENVER, COLORADO

A POSTDOCTORAL FELLOWSHIP is available immediately to investigate a novel membrane receptor implicated in cancer and related to patched. Expertise in protein isolation and biochemistry including mammalian and bacterial expression systems is essential. Other standard molecular biological techniques expected. Please send curriculum vitae and three references to: The Administrator, University of Colorado Health Sciences Center, Division of Medical Oncology, 4200 East 9th Avenue, Denver, CO 80262. FAX: 303-315-8825.

UCHSC is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available to investigate the signal transduction pathways underlying hypoxic liver injury and repair. Work will require study of transcriptional regulation and growth factors during hepatic wound healing. Experience in these areas is desirable. Both foreign and domestic applicants with a Ph.D. in molecular biology, biochemistry, cell biology, or a related discipline will be considered. Starting salary US\$22,000 to US\$26,000 depending on experience. Send a cover letter and résumé (no calls please) to: Victor Ankoma-Sey, M.D., University of Texas Health Science Center-Houston, Division of Gastroenterology, Hepatology, and Nutrition, 6431 Fannin, MSB 4.234, Houston, TX 77030.

POSTDOCTORAL POSITION available immediately for NIH-sponsored studies on structure, function, and inhibition of DNA topoisomerases. Requirements include a Ph.D., demonstrated experience in biochemistry and molecular biology, and excellent written/spoken English language skills. Send curriculum vitae plus names and telephone numbers of three references to: Dr. T. Shapiro, Johns Hopkins School of Medicine, 725 North Wolfe Street, Baltimore, MD 21205.

POSTDOCTORAL RESEARCH FELLOWSHIP in molecular biology. Experience in techniques such as tissue culture, cDNA constructs, PCR, viral and nonviral vectors, and transfection is desirable. Ph. D. required. Salary and benefits competitive; possibility exists for longterm position. Send résumé and cover letter to: Dr. S. Mohan, Loma Linda University, P.O. Box 7210, Loma Linda, CA 92354.

POSITIONS OPEN

UNIVERSITY OF PENNSYLVANIA SCHOOL OF MEDICINE

POSTDOCTORAL POSITION available immediately to study the neuroanatomy and neurophysiology of afferent regulation of brain monoaminergic neurons. The successful applicant will join the newly created Laboratory of Neuromodulation and Behavior, a group that integrates multiple neuroscience techniques to study noradrenergic and dopaminergic brain systems. Applicants must have a strong academic background and either neuroanatomy or neurophysiology experience. Competitive salary and benefits. Send curriculum vitae and names of three references to: Dr. Gary Aston-Jones, Professor, Department of Psychiatry, University of Pennsylvania, VA Medical Center (151), University and Woodland Avenues, Philadelphia, PA 19104.

POSTDOCTORAL POSITION TRANSCRIPTIONAL REGULATION AND HEART DEVELOPMENT

An NIH-funded position is available to pursue an analysis of control elements from the GATA-6 locus that: (a) direct distinct patterns of heart region-specific gene expression in transgenic mice and (b) reveal novel aspects of heart morphogenesis. Applicant must have a strong background in molecular biology; research experience in transcriptional regulation and developmental biology is highly desirable. Please send a curriculum vitae and three letters of recommendation to: John B. E. Burch, Ph.D., c/o Human Resources, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. Email: jb_burch@fccc.edu. Equal Opportunity Employer.

POSTDOCTORAL POSITIONS available to join a multidisciplinary group studying RNA-protein interactions involved in HIV-1 replication. (1) Bio-organic/Biophysical Chemist: projects involve combinatorial synthesis of peptides and fluorescence spectroscopy to analyze the structure of RNA-protein complexes. (2) Molecular Biologist/Biochemist: prior experience in at least two of the following is required: protein-protein interaction, *invito* transcription, protein modification. Send curriculum vitae and names of three references to: Dr. Tariq M. Rana, Department of Pharmacology, Robert Wood Johnson (Rutgers) Medical School, 675 Hoes Lane, Piscataway, NJ 08854. E-mail: rana@umdnj.edu.

POSTDOCTORAL POSITIONS

Metabolic Magnetic Resonance Research and Computing Center at the University of Pennsylvania has Postdoctoral positions for development and implementation of *in vivo* magnetic resonance methods in the clinical setting. Expertise required in one or more of the following fields: NMR spectroscopy and/or imaging, biology of brain ischemia, metabolism of normal tissues. Send applications to: Dr. Ravinder Reddy, Department of Radiology, University of Pennsylvania, B1 Stellar-Chance Laboratories, 422 Curie Boulevard, Philadelphia, PA 19104-6100. E-mail: ravi@mail.mmrrcc.upenn.edu; FAX: 215-573-2113.

POSTDOCTORAL POSITION FOX CHASE CANCER CENTER CANCER GENETICS

Position available to study the role of somatic genetic events in autosomat dominant polycystic kidney disease and tuberous sclerosis (*J. Clin. Iures.* 99:194–99, 1997). A strong background in molecular and cellular biology is required. Please send curriculum vitae and names of three references to: Dr. Elizabeth Henske, c/o Human Resources, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. E-mail: ep_henske@ fccc.edu. Equal Opportunity Employer.

TRAINING

INTERESTED IN CLINICAL OR POSTDOCTORAL RESEARCH TRAINING?

The National Institutes of Health has both! For more information, visit our website, which lists an array of clinical and postdoctoral opportunities, including tenure-track positions. To learn more, search:

http://www.training.nih.gov

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MOLECULAR INTERACTION TECHNOLO-GIES 1998. October 19–20, 1998, Cathedral Hill Hotel, San Francisco. Keynote: S. Schreiber, Harvard. Speakers: C. Barbas, Scripps; P. Bartel, Myriad; H. Blau, Stanford; R. Brent, UCB; J. Broach, Princeton; G. Crabtree, Stanford; R. Crameri, Switzerland; W. Dower, Affymax; S. Fields, University of Washington; M. Gilman, Ariad; H. Hoogenboom, Netherlands; J. Kochan, Hoffmann-La Roche; P. Legrain, Institute Pasteur; L. Loeb, University of Washington; G. Nolan, Stanford; C. Pabo, Princeton; A. Plückthun, Zurich; D. Payan, Rigel; M. Roth, Tularik; G. Rubin, UCB; E. Ruoslahti, Burnham Institute; R. Sauer, MIT; P. Schultz, UCB; P. Sternberg, Cal Tech; J. Thorner, UCB; R. Tsien, UCSD; M. Vidal, MGH; J. Wells, Genentech; M. Wickens, University of Wisconsin; K. Xanthopoulos, Aurora. Abstracts due August 31, 1998. Organizers: S. Fields, R. Balint, J. Larrick. Sponsor Palo Alto Institute of Molecular Medicine, 2462 Wyandotte Street, Mountain View, CA 94043. Telephone: 650-694-1420; FAX: 650-694-7717; e-mail: painm@netgate.net; website: www.pano.com/ painm.

ANNOUNCEMENT

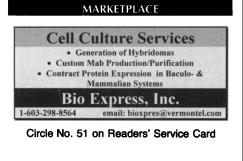
The Lance Armstrong Foundation (LAF) For Urologic Cancer announces inaugural RFPs for Screening and Survivorship. We plan a variety of awards including basic, clinical projects and Fellowships. The specifics of these awards are available from the Foundation at **website**: **www.laf.org**. The initial awards will be \$50,000 per year for up to three years, based on review and an annual progress report. Deadlines for receipt of these initial proposals will be July 1, 1998. Inquiries should be sent to:

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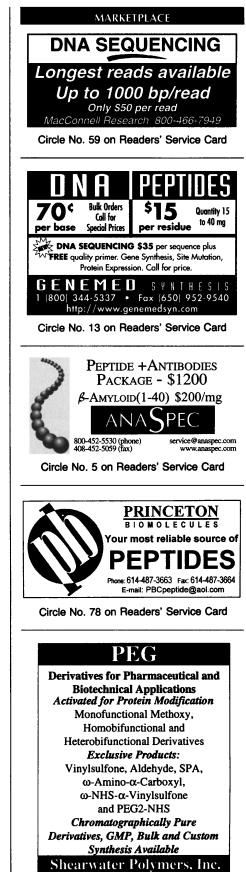




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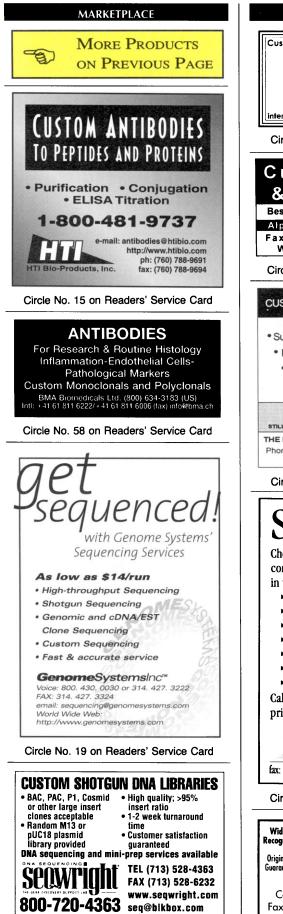


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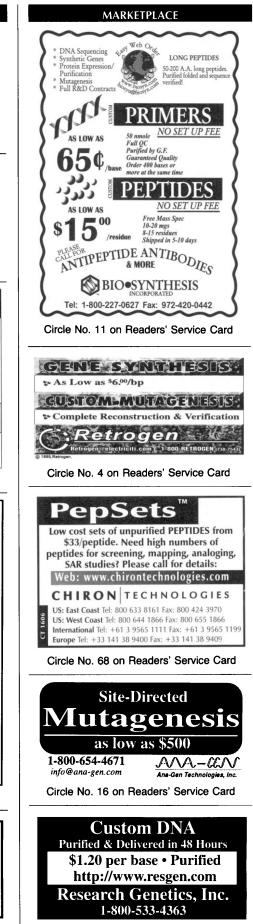
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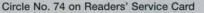
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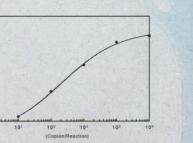
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