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### 13-18 February 1997 Washington State Convention and Trade Center

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Social Science and Education A general poster session that includes all areas of social science, including education, political science, policy, and economics.

Science Innovation A session focusing on new and emerging technologies and methodologies for research, and leading edge research in molecular biology and its interface with medicine, medical research, or instrumentation. Posters in the past have included molecular genetics, the human genome, molecular sequencing, clinical applications of immunology, tissue engineering, gene therapy, networks and complex systems, optics, microscopy, and imaging.

### Instructions for Submitters

**Deadline:** All submissions must be received at AAAS by Tuesday, October 15, 1996.

Abstract: AMSIE'97 Poster Abstract Forms and Registration Forms are available on the World Wide Web at http://www.aaas.org/meetings/ meetings.htm or by contacting the AAAS Meetings Office.

**Review:** All submitted, complete abstracts will be peer reviewed.

Poster Presentation: Individuals may present and be senior or presenting au-

thor for only one poster per day. Authors will be required to be present for a designated two-hour period during the four-hour poster session. All posters must be confined to the four foot by eight foot display board provided. Computer display equipment, sound or projection equipment, or free-standing displays are not permitted.

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### POSITIONS OPEN

#### CHAIR, BIOLOGICAL AND **BIOPHYSICAL SCIENCES** University of Louisville School of Dentistry

The University of Louisville announces the re-opening of the search to fill a full-time, tenure-track position at the ASSOCIATE/FULL PROFESSOR level as Chairperson of the Department of Biological and Biophysical Sci-ences. The position is available September 1, 1996 or when a Chairperson is identified. The department is pri-marily research oriented. Faculty members are currently involved in research in biomaterials, molecular and cell biology, gene regulation, calcium and bone metabolism, and microbiology. Opportunities exist for joint appointments in basic and clinical sciences in the Medical School and other schools within the University. Candidates must possess a D.M.D./D.D.S. degree or a Ph.D. degree. Pref-erence will be given to candidates who have both degrees, current funded research, and an established track record in dental education and administration. The selected candidate will assume a leadership role in integrating basic and clinical research and in further expanding the core research of the School of Dentistry. Salary and rank will be commensurate with the candidate's qualifications and experience. Interested persons should send a letter of application, curriculum vitae, and the names of four references to.

> Dr. John N. Williams Associate Dean for Educational Programs School of Dentistry University of Louisville Louisville, KY 40292 Telephone: 502-852-7242 FAX: 502-852-7163

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

> SIGNAL TRANSDUCTION University of Kansas Medical Center

The Department of Physiology is seeking to fill a ten-ure-track ASSISTANT PROFESSOR position with an outstanding individual investigating signaling pathways involved in the regulation of cell growth, differentiation, and/or cell death. Preference will be given to individuals pursuing research related to reproduction and cancer. The successful candidate will have an opportunity to participate in an NIH-funded Center and Training Program in Reproduction and contribute to the teaching of medical and graduate students. Please send: i) a statement of future research plans, ii) curriculum vitae, and iii) three letters of recommendation to: Chair, Faculty Search Committee, Department of Physiology, University of Kansas Medical Center, 3901 Rainbow Boulevard, Kansas City, KS 66160. Applications will be accepted until June 25, 1996 or until the position is filled. An Equal Opportunity / Affirmative Action Employer.

### ALLIANCE FOR THE PRUDENT USE OF ANTIBIOTICS

Small but growing international health organization is creating a new position of **EXECUTIVE DIRECTOR** to develop organizational model to expand scope and influence. Promotion/marketing of educational materials, fundraising, forming partnerships with related orga-nizations, creation of information bank, staff supervision. M.D. Ph.D., M.P.H., or equivalent and interest in anti-biotic use and resistance. Alliance for the Prudent Use of Antibiotics, P.O. Box 1372, Boston, MA 02117.

> DIRECTOR Laboratory for Protein Chemistry

Currently the Texas A&M University Department of Chemistry is seeking a Ph.D. level **DIRECTOR** for the Laboratory for Protein Chemistry, a Core Service Labo-ratory. Persons with excellent records of training and accomplishment in protein sequencing and related technol-ogies are encouraged to apply. The director is expected to interact closely with the faculty and students and the Director of the Laboratory for Biological Mass Spectrom-etry, and to supervise up to three B.S. or M.S. level tech-nicians. Texas A&M offers an excellent salary and fringe benefits package.

Applications will be accepted until the position is filled; review will begin July 1, 1996. Please send a résumé, a narrative discussion of training and experience, and names and addresses of three professional references to: Jeffery W. Kelly, Laboratory for Protein Chemistry, Department of Chemistry, Texas A&M University, College Station, TX 77843-3255. An Equal Opportunity/Affirmative Action Employer.

### POSITIONS OPEN

**ENDOWED PROFESSORHIP** The James Winston Benfield Chair Columbia University School of Dental and Oral Surgery

The Columbia University School of Dental and Oral Surgery is seeking a scientist and educator to fill the James Winston Benfield Professorship at the AS-SOCIATE PROFESSOR/PROFESSOR level. The position is available immediately. Applicants must have a D.D.S./D.M.D. and/or Ph.D. and should have demonstrated excellence in research in the area of matrix biology, especially as it applies to the tissues of the oral cavity, and be interested in the general field of biocompatibility and the clinical applications of biomedical materials. The candidate must have the ability to form interdisciplinary collaborations, lead a program of funded research, and as-sume appropriate teaching responsibilities. The Benfield Professor will be appointed to the Department of Restorative Dentistry, and there is the possibility of a joint appointment with another department in the University. Rank and salary commensurate with action perience. Send curriculum vitae and support data to: Dr. Enid Neidle, Chair, Search Committee, School of Dental and Oral Surgery, 630 West 168th Street, New York, NY 10032. Columbia University is an Affirmative Action/Equal Opportunity Employer.

#### LECTURER IN BIOLOGY Emory University

The Biology Department at Emory University seeks Ph.D. applicants for a non-tenure-track position of LEC-TURER for the fall semester of 1996. The appointment will be made for a period of three years with the possibility of renewal for an additional three years. The primary responsibility of the position is teaching in undergraduate introductory and second-level courses as well as partici-pating in advising students. Expertise is sought in either 1) ecology, physiological ecology, comparative physiolo-gy; or 2) cell and developmental biology. It is expected that the Lecturer will contribute to the academic life of the department and the university through foculty com the department and the university through faculty committees and other forms of academic service. Please send a curriculum vitae, a detailed statement of your teaching philosophy, and three letters of recommendation to: Lecturer Search, Department of Biology, Emory Univer-sity, Atlanta, GA 30322. Evaluation of candidates will begin on June 15, 1996 and will proceed until the position is filled. Emory is an Affirmative Action/Equal Opportunity Employer and applications from individuals belonging to the recognized minority groups are particularly welcome

#### FOUR TENURE-TRACK POSITIONS New York University Medical Center Department of Physiology and Neuroscience

Applications are invited for positions at ASSISTANT or ASSOCIATE PROFESSOR levels depending on experience. Areas of research in physiology or neuroscience are open. Applicants can expect start-up funding and ren-ovated laboraotry space. Although new faculty will be expected to participate in a team-taught physiology and/ or neuroscience course and graduate training programs, the majority of their effort will be devoted to vigorous, independent research. Applicants should send curriculum vitae and summary of current research and goals, together with the names of three references, to:

Rodolfo Llinás, M.D., Ph.D.

### Chairman Chairman Department of Physiology and Neuroscience New York University Medical Center 550 First Avenue New York, NY 10016

New York University encourages applications from women and members of minority groups.

#### TEL AVIV UNIVERSITY Department of Neurobiochemistry

Opening of a TENURE-TRACK position in the field of molecular and biochemical neurobiology. Ph.D. or equivalent degree and several years' postdoctoral experience required. Please send a curriculum vitae, brief research plan (three to five pages) and three letters of rec-ommendation to: Prof. Yoav Henis, Head, Depart-ment of Neurobiochemistry, Tel Aviv University, Ramat Aviv, 69978, Israel.

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of drug discovery research with The DuPont Merck Pharmaceutical Company. We are focused on meeting unmet medical needs through the discovery and development of innovative compounds leading to novel pharmaceuticals. We have immediate openings at our facilities in Wilmington, DE for:

### Senior Molecular Biologist

A candidate is sought to establish a laboratory focused on the cloning and expression of mammalian genes. The successful candidate must have a well-established ability to isolate and characterize genes from cell culture and tissue sources using gene expression and homology cloning. Experience must include the evaluation and characterization of cloned genes by expression in mammalian cells and other biological systems. A demonstrated ability to develop and apply recombinant DNA technologies creatively is required. This position will play a pivotal role in the company's drug discovery program and will carry substantial technical leadership responsibility. It will require the candidate to build mission-oriented collaborative groups to meet corporate objectives. The candidate must be able to interact well with a large number of scientists and have excellent written and verbal communication skills. A Ph.D. in Molecular Biology or equivalent degree with a minimum of 5-7 years postdoctoral experience is required. Industrial work experience is preferred. Code: SD-1

### Senior Molecular Biologist

A candidate is sought to oversee the core DNA sequencing facility and to provide Bioinformatic expertise to the therapeutic research areas. The successful candidate will have demonstrated expertise in the most current automated DNA sequencing technologies and have a strong background in applying bioinformatics to the drug discovery process. You must have excellent written and verbal communication skills and interact well with a large number of scientists. A Ph.D. in Molecular Biology or equivalent degree with a minimum of 5-7 years postdoctoral experience is required. Industrial work experience is preferred. Code: SD-2

### **Molecular Biologist**

The position requires a scientist with a strong background in molecular biology and cell biology. Responsibilities will include carrying out experiments requiring skills in RNA and DNA analysis, library construction and screening, PCR, cell transfection, cell culture, and the evaluation of gene expression. A BS/MS degree in Molecular Biology or related field with 2-3 years of work experience is required. Code: SD-3

### **Protein Chemist**

The position requires a skilled protein chemist with experience in protein purification and characterization as well as amino acid analysis and peptide sequencing. The candidate must be able to design and establish biochemical assays and perform various analytical and physical techniques. A BS/MS degree in Biochemistry/Chemistry or related field with 2-3 years of work experience is required. Code: SD-4

### **Cell Culture Biologist**

This position requires a scientist with experience in cell culture and protein expression. Specific tasks involve the production of recombinant proteins derived from insect and mammalian cell lines at the flask to >10 liter bioreactor scale. The successful candidate will have experience with general cell culture methodologies, bioreactor equipment and operation, and scale-up cell culture techniques. Skills in general molecular biology are desirable. BS/MS in Cell Biology or related field with 2-3 years of work experience is required. Code: SD-5

### Protein Chemist/Molecular Biologist

The position requires a scientist with a broad background in protein chemistry and molecular biology. The candidate will carry out experiments designed to reduce the time required for the expression and purification, of recombinant proteins. Experience in protein purification, protein analysis, gene cloning, expression vector construction, and gene expression are required. A BS/MS in Protein Chemistry, Molecular Biology or related field with 2-3 years of work experience is required. Code: SD-6

DuPont Merck offers a competitive salary and a generous benefits package including 401K plan as well as excellent working conditions and challenging assignments.

Please send a letter of introduction and resume, indicating position of interest, to: Human Resources-code, The DuPont Merck Pharmaceutical Company, Experimental Station, 400/2413, P.O. Box 80400, Wilmington, DE 19880-0400. An equal opportunity employer M/F/D/V

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#### ALBANY MEDICAL COLLEGE **TENURE-TRACK FACULTY** POSITIONS

Albany Medical College announces the avail-ability of several tenure-track faculty positions as part of an expansion in biomedical research and training in selected interdisciplinary areas. Scientists with a Ph.D., M.D., or M.D./Ph.D. Scientists with a Ph.D., M.D., or M.D./Ph.D. degree are invited to apply. Assistant Professor applicants need three years of postdoctoral train-ing and will be expected to develop a funded independent research program. Applicants for senior positions must have a track record of research excellence and experience as a predoctoral and/or postdoctoral advisor. Suc-cessful candidates will have teaching and/or clinical responsibilities depending on their per-sonal interests, training, and departmental af-filiation.

Expansion of the College's research and scien-tific training programs coincides with funding of a new Institutional Strategic Research Plan by Albany Medical Center designed to increase basic and clinical research in all departments. Thematic areas include:

### Vascular Biology: Heart and Lung Diseases Tissue Injury: Inflammation & Oxidant Stress Bacterial and Viral Pathogenesis Neuropharmacology and Neurobiology Cell and Matrix Biology: Molecular Signaling

Expansion of these research areas will be coor-Expansion of these research areas will be coor-dinated with new patient care and educational initiatives to produce "centers of excellence." Theme areas will also form the foundation for new predoctoral and postdoctoral interdiscipli-nary training programs. Applicants should specify the interdisciplinary research theme to which their application is directed. Departmen-tal appointment(s) will depend upon the applicant's research orientation and could be in either a basic science or clinical department. Specific positions are:

Vascular Biology: Heart and Lung Diseases. Established investigator at the Associate Pro-fessor or Professor level in the area of vascular wall biology with an interest in either endothe-lial permeability, hypertension, angiogenesis, ischemic heart disease, pulmonary edema, or interstitial lung disease.

Tissue Injury: Inflammation and Oxidant Stress. Established investigator at the Associ-ate Professor or Professor level studying either the cellular response to trauma, molecular mechanisms of wound healing, free radical biology, inflammation, monocyte-macrophage biology, or neutrophil activation.

Bacterial and Viral Pathogenesis. Established bacterial and viral ranogenesis, Established investigator at the Associate Professor or Pro-fessor level interested in either viral, particu-larly retroviral, and/or bacterial pathogenesis, tumor biology, molecular genetics, host de-fense mechanisms, lymphocyte functions, hu-man acquired immunodeficiency disease, or anti-retroviral strategy development.

Neuropharmacology and Neurobiology. As-sociate Professor or Professor clinical neurosociate Professor or Professor clinical neuro-sciencitist with experience in translating basic science research into neurobiological studies in people. The selected candidate will join an interdisciplinary research group whose inter-ests include neurodegenerative disease, ner-vous system development, synaptic plasticity, and the neurobiology/neuropharmacology of dug addiction drug addiction.

Grug addiction. Cell and Matrix Biology: Molecular Signal-ing. Assistant Professor interested in cytoskeleton and signal transduction, adhesion mediated gene regulation, or cell growth and motility. Individuals using model systems re-lated to developmental and cancer biology will have preference. The applicant will join an interdisciplinary research group with expertise in extracellular matrix, cell adhesion and mi-gration, gene regulation, and pericellular pro-teolysis.

Applicants should submit curriculum vitae with 3 Applicants should submit curnelium vitae with 3 references and a brief research summary to: Tho-mas M. Saba, Ph.D., Senior Vice President for Research, Albany Medical College (A-1), Al-bany, NY 12208. Review of applications will begin on July 1, 1996. An equal opportunity/ affirmative action employer. Women and mi-norities are encouraged to apply.

## CNS DISCOVERY RESEARCH at Schering-Plough

Schering-Plough Research Institute has several opportunities for talented scientists at all levels to join our expanding multidisciplinary group which focuses on molecular targets for CNS disorders.

### SECTION LEADER/ NEUROPHARMACOLOGIST

This is a unique opportunity for an experienced Scientist to establish a new neurosciences laboratory and direct a team of neuroscientists devoted to the development of *in vitro* and *in vivo* approaches to the identification and evaluation of new drug discovery targets in the CNS. The successful candidate will have a PhD in Neurosciences and 8-10 years of experience in an academic or industrial drug discovery environment demonstrating an established record of scientific achievement. Applicants will be expected to have the scientific breadth and leadership skills necessary to lead a diverse group of neuroscientists while contributing to new and ongoing drug discovery programs. To be considered for this position, please respond to Dept. CNS-SL.

### SENIOR SCIENTIST/ NEUROPHARMACOLOGIST

This is an excellent opportunity for a Senior Scientist to develop experimental models of cognition that will be used for the elucidation and characterization of novel drug discovery targets. The successful candidate will have a PhD in Neuropharmacology or a related field and 2-4 years of postdoctoral experience in behavioral sciences. Expertise in ethology, general behavioral procedures and/or the study of Alzheimer's disease helpful. To be considered for this position, please respond to Dept. CNS-SS.

### SENIOR SCIENTIST/ ELECTROPHYSIOLOGISTS

We are seeking Electrophysiologists with extensive experience in neurobiology, a PhD and at least 3 years of postdoctoral experience. Background must include demonstrated expertise in extracellular and intracellular recording from *in vivo* and/or from isolated *in vitro* preparations. Experience in patch clamp techniques, Xenopus oocyte expression systems and measurements of LTP/LTD a plus. To be considered for these positions, please respond to Dept. CNS-EP.

### SENIOR SCIENTISTS/ MOLECULAR NEUROBIOLOGISTS

Positions are available for talented Molecular Biologists, Molecular Pharmacologists and Biochemists with experience in receptors, transporters, G proteins or other signal transduction systems. The successful candidates will have a PhD, at least 3 years of postdoctoral experience, a strong research background plus the ability to initiate and direct an independent research program in the CNS area. To be considered for these positions, please respond to Dept. CNS-MN.

### SCIENTISTS MOLECULAR NEUROBIOLOGY

Several positions are available for Scientists with a BS degree and 4-10 years of laboratory experience or an MS degree and 2-8 years of laboratory experience. Background must include molecular biology, biochemistry or molecular pharmacology as well as strong technical and interpersonal skills. Experience with receptors, transporters, G proteins or signal transduction systems is highly desirable. Technical skills such as cDNA library construction and screening, mammalian tissue culture, expression and purification of recombinant proteins and assay design are preferred. To be considered for these positions, please respond to Dept. CNS-NB.

We offer an excellent compensation package including a competitive salary and comprehensive benefits. For prompt, confidential consideration, we invite you to forward a resume indicating the Dept. Code for your position of interest and salary requirements to: Human Resources-KB, Schering-Plough Research Institute, K-15-1, 2015 Galloping Hill Road, Kenilworth, NJ 07033-0539. We are an equal opportunity employer. We regret we are unable to respond to each resume. Only those selected for an interview will be contacted.



Using Science For Human Advantage



In addition to a competitive salary and benefits, you'll enjoy pursuing your career in a professional environment that encourages you to pursue every possibility for technical innovation. For confidential consideration, please submit a CV, bibliography, and a statement of scientific interest to: Eli Lilly and Company, Scientific Recruitment, Dept. ADSCMPD05, Lilly Corporate Center, Indianapolis, IN 46285.

We are an equal opportunity employer dedicated to diversity and the strength it brings to the workplace.

For other job opportunities, please access our Job Bank at http://www.lilly.com or phone our Jobline 1-800-892-9121.

### **CNS** Discovery Research

### Postdoctoral Research Fellows in Neurodegeneration and Neuroprotection

The successful candidates will join a laboratory currently investigating the molecular/cellular mechanisms underlying various models of the neurodegeneration and neuroprotection in the CNS. Studies on the cellular/molecular mechanisms underlying the neurotoxic effects of the amyloid beta peptide in cultured fetal rat neurons, apoptosis of mammalian neurons *in vitro* and *in vivo*, the role of glial activation in neurodegeneration, the possible role of receptors, second messengers and transcription factors in apoptotic signaling, and the isolation of novel genes involved in both neurodegeneration and neuroprotection are in progress.

To qualify, you will need a Ph.D. degree in one of the biological sciences. Experience in molecular biology and tissue culture, especially the use of primary cultures of fetal rat or mouse neurons, is desirable. Good fluency in the English language is required. Please submit a CV, bibliography, and a statement of scientific interest.



### **Bioinformatics Scientists**

Immediate openings are available for highly motivated Bioinformatics scientists at our Biotechnology Research Center in Berkeley, California. These individuals will participate in the discovery of genes leading to biotherapeutics and to novel targets for therapeutic drug research, and will interact with similar groups at other Bayer Research Centers in the US, Europe, and Japan.

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### **Computational Biologist**

The successful candidate will be primarily responsible for bioinformatics-driven gene discovery projects, development of innovative database search algorithms and strategies, and management of genetic databases. The successful candidate should have demonstrated expertise in the interrogation of DNA and protein sequence databases and programming with C in a UNIX environment. Familiarity with sequence-structure relationships and analysis of gene families is desirable. A PhD in Molecular, Structural, or Evolutionary Biology and at least 3 years of postdoctoral experience are required.

### **Computer Scientist**

The successful candidate will work closely with both the computational biologist and systems personnel to implement and manage bioinformatics computational resources, manage genetic databases, and design applications software. Understanding of the UNIX operating system, client/server computing, network security, and programming experience in C is required. A degree in a scientific or numeric subject and at least 2 years of relevant experience are required.

We offer attractive compensation and generous benefits. For immediate consideration, please forward a resume, including salary history, to: **Bayer Corp., Pharmaceutical Division, Dept. AA-JG**, **400 Morgan Lane, West Haven, CT 06516.** No phone calls please. An Equal Opportunity Employer M/F/D/V. Bayer Corp. is committed to creating and maintaining cultural diversity within our work environment.



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The National Institutes of Health has introduced a new web site. Now, the latest news about clinical and research training opportunities at NIH can be accessed by visiting us at http://helix.nih.gov:8001/oe/

At the site, you can quickly obtain information regarding clinical and postdoctoral training. Review the NIH tenure-track openings. Take a look at the NIH Postdoctoral Research Fellowship Opportunities Catalog which chronicles research being conducted in all NIH laboratories. You can even apply electronically for positions.

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### National Institutes Of Health

Office Of Education http://helix.nih.gov:8001/0e/

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## Make a global impact in clinical drug development

QUINTILES PACIFIC, INC., located in San Diego, California, is a growing contract research organization working with the pharmaceutical industry in developing new psychotropic and other (CNS) drugs.

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**O**QUINTILES

### Development of New Therapeutic Approaches for the Treatment of Childhood Cancers

Tenure-track position available (equivalent to that of an Assistant Professor) to develop new therapeutic approaches for the treatment of childhood cancers with an emphasis on central nervous system tumors. These new therapies will incorporate innovative approaches based on the biology of the tumors and will be evaluated in *in* vitro and animal models. Translational clinical trials designed to test the most promising new approaches are performed in children with cancers that are refractory to standard treatments. Collaboration with other interested children's cancer centers and cooperative groups is encouraged. Resources include laboratory space, shared facilities, equipment and supplies, a part-time research nurse, and support for one technician and postdoctoral fellows from the clinical training program. Candidate must have an M.D. degree with training and experience in pediatric hematology/oncology, and in performing research and clinical trials in children with cancer. Please send a cover letter, curriculum vitae, bibliography, and a two-page statement including research interests and career goals to Lee Helman, M.D., Pediatric Branch, National Cancer Institute, Building 10, Room 13N240, 10 Center Drive, MSC 1928, Bethesda, MD 20892-1928. In addition, arrange to have letters of reference sent to the same address from three scientists who can provide an evaluation of your qualifications. Applications must be received within six weeks of the publication of this advertisement. The National Institutes of Health is an Equal Opportunity Employer.

### SR. PROTEIN CHEMIST-STRUCTURAL BIOLOGY

Be at the forefront of drug discovery research with The DuPont Merck Pharmaceutical Company. We are focused on meeting unmet medical needs through the discovery and development of innovative compounds leading to novel pharmaceuticals.

The candidate will be an expert in state-of-the-art protein purification technology and its application to natural and recombinant proteins. The candidate should have experience isolating proteins for use in structural studies and/or enzymology. Expertise in thermodynamics, biophysical characterization and titrating calorimetry is desirable. A Ph.D. in biochemistry with a minimum of 3-5 years of postdoctoral experience is required.

Our location, near Wilmington, DE, offers an attractive lifestyle with easy access to all the cultural, academic and recreational activities of the Eastern Seaboard. The DuPont Merck Pharmaceutical Company can offer you an excellent compensation and benefits package. To be considered, please forward your resume to: Human Resources-RM, The DuPont Merck Pharmaceutical Company, Experimental Station, 400/2413, P.O. Box 80400, Wilmington, DE 19880-0400. An equal opportunity employer M/F/D/V.



The DuPont Merck Pharmaceutical Company Merging Strengths...Emerging Opportunities

Since 1992, Ontogen has established itself as a leader in the development and use of automated organic synthesis technologies. Our mission is to utilize modern tools of chemistry and biology to discover and develop small molecule therapeutics. A pending collaboration requires the growth of the biology department at our research facility located 30 miles north of San Diego in Carlsbad, CA.

### **Director of Biology**

The successful candidate's responsibility will be to dramatically increase the size and capabilities of the existing department. In addition, this individual will direct the preclinical development studies of drug candidates and manage a multi-disciplinary approach to drug development.

All applicants must have 7+ years' experience in pharmaceutical drug development, in addition to a Ph.D. in a biological discipline. Proven experience in taking multiple projects from inception to completion as a project leader and a team member are required. A broad knowledge base is essential and should include enzymology, cellular receptor and signal transduction processes and *in vivo* pharmacology. Job Code - DIR2

### **Research Scientist, Biology**

The successful candidate will have a Ph.D. in Biology or a related discipline with 2 to 5 years' postdoctoral studies in which modern tools of biology were used to explore biological processes at a molecular and cellular level. Endeavours related to mechanism of action and proof of therapeutic relevance are essential. Job Code - RSB2 In addition to a strong personal commitment to small molecule drug discovery, all applicants are expected to possess excellent written and oral communication skills as evidenced by a strong publication record consistent with independent research, as well as the ability to work well on a multi-disciplinary team. Ontogen offers competive compensation and benefits packages including a stock option plan. Qualified candidates are invited to send or fax resumes to Human Resources (job code), Ontogen Corporation, 2325 Camino Vida Roble, Carlsbad, CA 92009; 619/930-0200 (fax). Ontogen is an Equal Opportunity/Affirmative Action Employer.

**Ontogen Corporation** 

### U.S. Geological Survey Chief, Biological Resources Division Senior Executive Service (SES)

The U.S. Geological Survey (USGS) is seeking candidates for the full-time position of Chief, Biological Resources Division (BRD). Applicants should have achieved national recognition for outstanding scholarship and professional research in the biological sciences as well as possess significant managerial experience. This is a career civil service position, in the SES, with a salary range that begins at \$100,526 per annum.

The Chief Biologist plans and directs extensive research programs conducted by a large group of world-renowned scientists. These programs provide scientific understanding and technologies needed to support the sound management and conservation of our nation's biological resources.

Individuals interested in this position should contact Lisa Snooks at (703) 648-7420 to receive a complete vacancy announcement which describes job requirements (including knowledges, abilities, skills, and other characteristics (KASOCs) required for the position), an application, and evaluation procedures. Applications (Optional Application for Federal Employment, OF-612, or resume) must be received at the following address by June 28, 1996, and should reference announcement #SES-96-1. A Reference and Qualifications Analysis form and a narrative qualifications statement addressing the KASOCs should also be submitted by the above date and will be used in the evaluation of candidates.

All applicants tentatively selected must submit to urinalysis prior to appointment to screen for illegal drug use.

U.S. Geological Survey Branch of Recruitment and Placement 601 National Center Reston, Virginia 22092 The U.S. Geological Survey is an Equal Opportunity Employer U.S. citizenship is required

### Sandia National Laboratories

### COMPUTATIONAL CHEMIST POSTDOCTORAL POSITION

Sandia National Laboratories, Albuquerque, New Mexico, has an immediate postdoctoral position open in computational chemistry. The position is available in the computer-aided molecular design group whose research activities include software development and application studies in the area of catalysis. The successful candidate will be involved in an ongoing project that consists of deriving chemical reaction pathways using first principle computational techniques. Our research group has a variety of in-house and commercial computational chemistry products including a chemical structure generator, a structural elucidation program, and several quantum and classical mechanics simulations tools. The group has high performance computing resources including graphics workstations and an SGI Challenge computer. The group has access to Sandia's massively parallel 1024 nodes nCUBE, 1840 nodes Intel Paragon, and a teraflop Intel Paragon scheduled to be delivered by year's end. The successful candidate should have a Ph.D. in Chemistry or related field with experience in kinetics modeling. Practical knowledge in one or more of the following areas is required: transition state theory, ab initio quantum chemistry, molecular dynamics. Monte Carlo simulations, and structure/ property relationships modeling. Experience in computer programming is also required. Send curriculum vitae (with names and telephone numbers of three references), reprints, and copies of college transcripts to: Dr. Jean-Loup Faulon, Sandia National Laboratories, Attn: Bonnie M. Townsend, Dept. 3535-0015, Personnel, MS 1023, Albuquerque, NM 87185. Deadline is July, 1, 1996. EOE.



### Chairperson, Department of Neuroscience Albert Einstein College of Medicine

Albert Einstein College of Medicine is seeking candi-dates for the Chair of Neuroscience. The principal qualification for the Chair is an internationally recognized record of research excellence and creativity in neurobiology. Candidates should have strong interests in fostering and integrating current research endeavors of the Department; developing new research programs through faculty recruitment and collaborations with individual investigators, consortiums and industry; teaching and training graduate and medical students and postdoctoral fellows; facilitating the integration of basic neuroscience research with important clinical problems and participating in a rapidly developing program in human genetics. It is expected that the new chairperson will have an appreciation for the broad spectrum of research activities that constitute state-ofthe-art neuroscience. Neuroscience is interpreted broadly and includes neurobiologists investigating lower organisms as well as those studying mammalian systems.

The department currently has 19 tenured or tenuretrack members. Research programs ranging from cognitive neuroscience through electrophysiology, integrated systems, and cellular and molecular neuroscience are presently in place in the department. The Neuroscience Department has been a magnet for attracting outstanding Ph.D. and M.D./Ph.D. students. Currently a large cadre of students and fellows are in training.

The Neuroscience Department is integrated with ten other basic science departments and is closely allied with the clinical/research activities of the Departments of Medicine, Neurology, and Clinical Pathology. This constitutes a large, diverse, and highly collaborative research community. Major interdisciplinary research activities include programs in immunology, signal transduction, virology, developmental biology, molecular genetics, drug development, membrane biology, and structural biology. NIH-funded multidisciplinary Cen-ters for Cancer Research, Diabetes Research and Training, Liver Research, and the Chromosome 12 project have major impact on the scientific activities of the Einstein community. These Centers and the Medical School provide shared facilities that are available for all Neuroscience faculty, including facilities for: transgenic and knockout mice, protein sequencing and analysis, NMR and EPR spectroscopy, mass-spectrometry, electron and confocal microscopy and video imaging, fluo-rescence activated cell sorting, automated DNA sequencing, hybridoma production, cytogenetics, cell injection and imaging, X-ray crystallography, and macromolecular modelling.

The Dean and the Faculty have identified the Chair of Neuroscience as a key leadership position for the future development of the Medical School and its research endeavors. A substantial package of financial support and research space has been committed to support the Chair, recruit new faculty, renovate appropriate laboratory space, and develop facilities that will promote research in neurobiology.

The Albert Einstein College of Medicine complex is in a residential section of New York City, minutes away from Westchester County and Manhattan. Send curriculum vitae and references to Dr. Charles Rubin, Chair, Department of Molecular Pharmacology, c/ o Ann Marie Alba, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1300 Morris Park Avenue, Bronx, New York 10461.

Equal Opportunity Employer



ZymoGenetics, a Seattle-based biotechnology company located in the historic Lake Union Steam Plant, is looking to fill four scientist positions:

### SCIENTIST, CELL AND DEVELOPMENTAL BIOLOGY

Successful candidate will participate in discovery/characterization of novel therapeutics for the treatment of diabetes and its complications. Involves working independently and with a multidisciplinary team to establish in vitro assays and model systems to determine the role of novel hormone-receptor signaling processes in the control of cell development, differentiation and metabolism. Qualified candidate will have a Ph.D., M.D. or D.V.M. degree and 2+ years research experience. Experience in mammalian cell physiology/immortalization techniques is preferred. **Reference #15N296**.

### SCIENTIST/SR. SCIENTIST, ENDOCRINOLOGY

Successful candidate will design/conduct studies to discover new agents for expanding programs in diabetes and women's health research. Will identify, characterize and perform efficacy testing of small molecules/therapeutic proteins. Must possess a background in peptide hormone physiology, appetite regulation, steroid biology and/or neuroendocrinology. Qualified candidate will have a Ph.D., M.D. or D.V.M. degree and 2-5 years research experience with in vitro and in vivo systems. Experience in diabetes research is preferred. **Reference #15N396**.

### PHARMACEUTICAL SCIENTIST

This pharmaceutics/pharmacokinetics scientist will support small molecule lead evaluation. Responsible for preformulation, development of early formulations for in vivo use, assay development and preliminary pharmacokinetics/drug metabolism studies. Qualified candidate will have a Ph.D. degree in Pharmaceutical Sciences or equivalent experience. Strong verbal/written communication skills are required. **Reference #15N496**.

### SCIENTIST/SR. SCIENTIST

Our Immunology Group is seeking a Cellular and Molecular Immunologist at the Scientist or Sr. Scientist level. Involves developing in vitro and in vivo systems to discover/test novel protein therapeutics for insulin dependent diabetes and other autoimmune diseases. Qualified candidate will have a Ph.D. or M.D. degree and 2+ years postdoctoral research background. Experience with in vitro and in vivo models of autoimmunity is a plus. **Reference #14N296.** 

As a subsidiary of Novo Nordisk A/S, the world's largest manufacturer of insulin, ZymoGenetics offers an exciting environment characteristic of a small research and development company, along with the scope and stability of a large pharmaceutical corporation. We also offer intellectual challenge, stateof-the-art facilities and a generous benefits package. Please apply by sending your resume or CV, noting reference number, to: ZymoGenetics, Inc., Human Resources, 1201 Eastlake Avenue East, Seattle, WA 98102. ZymoGenetics is committed to Equal Opportunity and Diversity.

ZYMOGENETICS

### **RESEARCH SCIENTIST/PEPTIDE CHEMISTRY**

Discover Amgen and you'll find a research environment that emphasizes collaboration, intellectual honesty, scientific integrity, and a supportive culture. This unique approach has helped us grow into a global biotechnology leader in just fifteen years.

Currently, our Peptide Technology Group seeks a highly motivated Research Scientist candidate possessing versatile synthetic skills. Minimum qualifications for this opportunity are a Ph.D degree in Peptide Chemistry or Organic Chemistry. In addition to post-doctoral training or related experience, candidate should have three to five years of experience in peptide synthesis in an academic or industrial setting. The preferred candidate will have a strong background in solid phase peptide chemistry with additional experience in solution phase synthesis and a strong publication record in these areas.

### We realize diverse perspectives are a key factor in the process of discovery.

At Amgen, you'll find our approach as rewarding as it is effective. We offer a highly competitive compensation and benefits package. Please e-mail your resume/c.v. (indicating resume as your subject) to: jobs@amgen.com or mail your resume to: Amgen, Boulder, Human Resources, Dept. BPSC5722, PO BOX 19409, Boulder, CO 80308-2409. Please consult our on-line Job Bulletin Board at http://www.bio.com for information on other career opportunities available at Amgen. Principals only, please.

EEO/AA Employer M/F/D/V.



### Associate Staff Scientist/Staff Scientist

ICOS Corporation, located in the Pacific Northwest, is a biopharmaceutical company founded to develop medications for the treatment of serious diseases.

We have a need for a molecular and cellular biologist with experience in protein purification and antibody generation and characterization. The person we seek will have research experience in cell cycle checkpoints, DNA repair, and oncology.

Minimum requirements include: Ph.D. (preferably with postdoctoral experience). Biochemical characterization of natural and recombinant proteins required.

The successful candidate will have a proven track record based on a strong publication profile and should possess personal initiative, good interpersonal skills, and strong communication ability.

Please send c.v. to:

Job Ref: HOE0596 Human Resources ICOS CORPORATION 22021 20th Avenue SE Bothell, WA 98021

#### Staff Scientist

We are seeking a staff scientist to join our preclinical research group. Responsibilities of the position include: design, conduct, and interpret animal pharmacology and pharmacokinetic studies that support both late stage research programs and development projects. Experience and skills required include: preclinical animal pharmacology; pharmacokinetics; small animal models of inflammation; and extensive animal handling. Experience in the preparation of FDA submissions desirable. The successful candidate will have a Ph.D. and postdoctoral experience in immunology or pharmacology or the equivalent work experience.

Please send c.v. to:

Job Ref: PET0596 Human Resources ICOS CORPORATION 22021 20th Avenue SE Bothell, WA 98021



### Pharmacology Chair Tulane Medical School

The School of Medicine at Tulane University Medical Center invites applications and nominations for the position of Professor and Chair of the Department of Pharmacology. The position offers exciting opportunities to lead this highly successful department through new research frontiers in the pharmacological sciences and innovative approaches to medical education. Extensive interactions are possible withothermedical school basic and clinical science departments and interdisciplinary Medical Center research initiatives in cancer biology, cardiovascular medicine, infectious diseases, neuroscience, gene therapy, women's health, bioenvironmental sciences, and basic molecular and cellular biology.

Applications and nominations may be sent to: Pharmacology Search, Office of the Dean, Tulane University School of Medicine, 1430 Tulane Avenue, SL77, New Orleans, LA 70112. Applicants should submit a letter of interest accompanied by a comprehensive curriculum vitae and the names and addresses of four references. The deadline for receipt of applications is July 15, 1996.

Tulane University is an AA/EEO Employer. Women and minorities are encouraged to apply.

### CHAIR

### DEPARTMENT OF BIOMEDICAL SCIENCES

UNIVERSITY OF SOUTH ALABAMA

Applications are invited for the position of Chairperson of Biomedical Sciences. Biomedical Sciences is an undergraduate department whose unique mission is to provide a strong undergraduate basic medical sciences degree program for premedical and pre-Ph.D. students. The program also provides service teaching for other health professions students.

Successful applicants will have an earned doctorate in either physiology or pharmacology and must (1) have a distinguished record in teaching and in research; (2) have proven leadership capability and administrative skills; (3) have strong interpersonal skills including the ability to communicate effectively with internal and external constituencies; and (4) have a strong commitment to undergraduate education in basic medical sciences.

### Application deadline: June 30, 1996 or until filled.

Send letter, c.v., and 3 letters of reference to: Dr. Daniel E. Sellers, Associate Dean, College of Allied Health Professions, 1500 University Commons, University of South Alabama, Mobile, AL 36688.

The University of South Alabama is an EOE, Affirmative Action Employer. M/F/D

### Career Opportunities

**Onyx Pharmaceuticals** is a dynamic young company engaged in the development of therapeutics for cancer and other diseases associated with abnormal cell growth. We're currently seeking qualified candidates for the following opportunities:

### Scientist

The chosen candidate will have demonstrated experience with cellular pharmacology and cellular response to small molecule pharmaceuticals. The position requires a Ph.D. in cell biology, biochemistry or allied discipline; 4-5 years of experience (industry preferred) carrying out cell-based assay setup, screening, and evaluation; and a strong understanding of cellular growth control mechanisms. (Job# 9616AF-S)

### **Resear**ch Associate/ Associate Scientist

This position will involve the establishment of a cell-based assay to evaluate compounds/proteins involved in breast tumorigenesis. The successful candidate will possess an MS or Ph.D. in the biological sciences; at least 6 years of practical lab experience; a broad based skill set, to include cloning and expression of genes in mammalian cells; strong knowledge of cancer concepts; and the ability & interpersonal skills to excel in a team-oriented research setting. (Job# 9615PP-S)

To apply, please send/fax resume to: **ONYX Pharmaceuticals**, **Attn: (Job#), 3031 Research Dr., Richmond, CA 94806**. Fax: (510) 222-9387, or e-mail to denise@onyx-pharm.com.

Equal Opportunity Employer



CytoTherapeutics, Inc. is a leader in the development of proprietary products and technology designed to deliver therapeutic substances to the central nervous system (CNS). The Company's CNS-focused technology is designed to provide controlled, site-specific and safe delivery of a variety of novel therapeutic substances across the blood-brain barrier, thereby overcoming a fundamental obstacle in the effective treatment of CNS diseases. The Company is currently developing products for the treatment of chronic pain, ALS, Parkinson's disease and Alzheimer's disease, with additional research efforts directed to several other CNS disorders.

### Protein Chemistry Research Associate

You will be responsible for the operation of protein/peptide sequencer; database searches; analysis of protein sequences; research support in protein purification; and characterization using gel electrophoresis, HPLC and FPLC. To qualify, you must have a BS or MS degree and at least 4-8 years of related experience. Hands-on expertise in micro-protein sequencing and proficiency with methods of protein purification is a must. Experience with SMART System, capillary electrophoresis or cell culture is a plus. Excellent organizational and documentation skills also a must.

### Analytical Chemistry - Postdoctoral

Your responsibilities will include developing methodologies for characterizing protein/peptides and other substances secreted from primary, immortalized or genetically engineered cells employed in encapsulated cell therapy programs. The ideal candidate will possess a Ph.D in a related field with expertise in state-of-the-art protein purification, identification and characterization. Ability to design and perform biochemical studies and develop protocols for the characterization and identification of secreted cellular products from encapsulated cell sources. Ability to establish a variety of assay methods for characterizing protein constituents by gel/mass spec analysis and experience in identifying proteins/peptides and other cellular products by protein sequencing necessary. Outstanding problem-solving skills with a high level of self-motivation are essential for this position.

CytoTherapeutics is a rapidly expanding biotechnology company in Providence, Rhode Island (just 45 minutes south of Boston). We offer extensive professional challenge and



encourage your ideas and professional development. We also offer a competitive compensation and benefits package. Please send your C.V. in confidence to: CytoTherapeutics, Human Resources, 2 Richmond Square, Providence, RI 02906 or fax to: (401) 272-3485. We are an equal opportunity employer.

**CytoTherapeutics** 



The Department of Biochemistry, St. Jude Children's Research Hospital, is enlarging its research efforts in the area of the molecular and cellular biology of signal transduction. As part of this expansion, the Board of Governors has established a memorial fellowship in honor of Dr. Martin Morrison, the founding chairman of the Department. The research programs within the Department are well-equipped and offer recent Ph.D. or M.D. graduates the opportunity to participate in energetic multidisciplinary groups dealing with a range of basic and clinically oriented research. SJCRH offers a competitive stipend and annual review for reappointment. The beginning date of the fellowship is September 1, 1996. Current research programs within the Department include:

Paul Brindle: Signal dependent regulation of c-activator/transcription factor interactions.

John Cleveland: Oncogene control of apoptosis.

James N. Ihle: Mechanisms of hematopoietic stem cell growth regulation, differentiation and transformation. Paul Ney: Transcriptional regulators of erythroid cell fate.

- Suzanne Jackowski: Cell cycle regulation of membrane phospholipid biosynthesis.
- Charles Rock: Role of phospholipid-derived second messengers in growth factor action.

Robert Rooney: Mechanisms of transcription factor regulation by the E1A oncogene.

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

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

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



 The Morrison Postdoctorel Fellowship

 Department of Biochemistry

 St. Jude Children's Research Hospital

 332 North Lauderdale • Memphis, TN 38101



An Equal Opportunity/Affirmative Action Employer

### POSITIONS OPEN



CHEMICAL ENGINEER RESEARCH PHYSICAL SCIENTIST

The National Center for Agricultural Utilization Research (NCAUR), Peoria, Illinois, has a permanent fulltime interdisciplinary position open for either a CHEM-ICAL ENGINEER or RESEARCH PHYSICAL SCI-**ENTIST**. The scientist, as a team member, will apply current rheological and polymer physics models to develop and analyze rheological and other physical data on a variety of biomaterial suspensions, dispersions, gels, and viscoelastic doughs. In addition, the scientist will conduct research on chemical modification and extrusion processing of biopolymers, such as proteins and starch for industrial usage. Candidate must be a U.S. citizen and have a Ph.D. in chemical engineering or physical science or equivalent doctoral degree, or equivalent professional research experience. Knowledge of polymer physics, poly-mer physical chemistry, and theoretical and experimental rheology is required. The incumbent will be expected to publish and present research results and participate in technical/professional societies. Salary is commensurate with experience (\$43,658 to \$67,491 per year). For ad-ditional information about the position, contact: Dr. Fred Dintzis, USDA/ARS/NCAUR, Telephone: 309-681-6240. For application procedures/forms, contact: Human Resources Division, ARS, Telephone: 301-344-1858: indicate ad number ARS-D6N-077. Application must be postmarked by June 28, 1996. Incomplete applications will not receive consideration

USDA/ARS is an Equal Opportunity Employer

#### ASSISTANT PROFESSOR BIOLOGY

Pending administrative approval, the Department of Biology at Vanderbilt University invites applications for a temporary, non-tenure-track position at the level of AS-SISTANT PROFESSOR. The successful candidate will be expected to teach a large (200 students) course for non-majors on the subject of "Human Biology," and other courses that complement the needs of the department. Preference will be given to applicants who have an active research program in the area of biological clocks and/or neurobiology. Applicants should submit a curriculum vitae and a description of teaching experience and research interests, and should arrange to have three letters of recommendation sent by July 31, 1996 to: Human Biology Search Committee, Department of Biology, Box 1812B, Vanderbilt University, Nashville, TN 37235. Vanderbilt University is an Equal Opportunity/Affinnative Action Employer.

Biology–Clarkson University: One-year VISITING ASSISTANT PROFESSOR of biology beginning August 1996. Potential for re-appointment in the tenuretrack is contingent upon the candidate's qualifications and University funding. Postdoctoral experience is required with scholarship in the molecular genetics of neurodevelopment of *C. elegans*. Teaching duties would include: fall semester—genetics lecture and lab, cell biology lab, introductory lab; spring semester—developmental biology, physiology lab, introductory lab. Send curriculum vitae, statement of research and teaching interests, Chair, Department of Biology, Box 5805, Clarkson University, Potsdam, NY 13699-5805. Applications will be reviewed upon receipt. Closing date: May 31, 1996. *Clarkson University is an Equal Employment Opportunity/ Affirmative Action Employer*. Position posting number 74-95.

#### UNIVERSITY OF NEBRASKA MEDICAL CENTER Pathology/Microbiology

Ph.D. hematologist at the **INSTRUCTOR-ASSIST-ANT PROFESSOR** level interested in hematopoietic regulation, stem cell transplantation, and gene therapy. **POSTDOCTORAL RESEARCH ASSOCIATE** to

**POSTDOCTORAL RESEARCH ASSOCIATE** to study the immunoregulation of host-tumor interactions during stem cell therapy. Experience in flow cytometry,

immunoregulation, and molecular immunology required. Curriculum vitae and references to: James Talmadge, Ph.D., Pathology/Microbiology, University of Nebraska Medical Center, 600 South 42nd Street, Omaha, NE 68198-5660. Telephone: 402-559-5639. An Affirmative Action/Equal Opportunity Employer.

### POSITIONS OPEN

### ASSISTANT PROFESSOR OF PATHOLOGY

A tenure-track position at the ASSISTANT PRO-FESSOR level is available for an individual with demonstrated capacity for independent, fundable basic research in the field of immunity and immune tolerance, and with experience in flow cytometry, to participate in research and service aspects of the Flow Cytometry Division of Clinical Pathology Laboratories in the Department of Pathology, Northwestern University Medical School. Must have Ph.D. or M.D., knowledge of cellular immunology and some molecular biology, laboratory experience, and interest to direct research core activities of the Flow Cytometry Division. Selected candidate will have ample opportunity to interact with members of the Immunobiology Program, Neurosciences Institute, and the Cancer Center. Salary is commensurate with experience. Please send curriculum vitae and names of three reference es no later than June 20, 1996 to: Janardan K. Reddy, M.D., Chairman, Department of Pathology, North-western University Medical School, 303 East Chicago Avenue, Chicago, IL 60611.

Northvestern University is an Equal Opportunity/Affirmative Action Employer. Hiring is contingent upon eligibility to work in the United States.

#### RESEARCH MOLECULAR BIOLOGIST MICROBIOLOGIST

USDA/Agricultural Research Service (ARS), National Center for Agricultural Utilization Research, Bioactive Agents Research, Peoria, Illinois, invites applications for a permanent full-time SCIENTIST who will be part of a team studying fungal toxins that affect food and feed quality and pose a threat to human and animal health. The scientist will provide guidance and expertise in molecular biology and microbiology to identify, sequence, and clone genes responsible for synthesis of specific fungal constituents that affect *Fusarium sp.* virulence and disease on plants. The incumbent will be expected to interact with team members, commodity groups, and other interested parties. Candidates must be U.S. citizens and have a degree in microbiology, plant pathology, or related discipline; knowledge of molecular biology techniques; and ability to plan, conduct, and report original and novel research that impacts this particular area of science. Salary is commensurate with experience (\$43,658 to \$79,754 per year). For information on the research assignment call: Dr. Michael McGuire, Telephone: 309-681-6595; Email: mcguirmr@ncaurl.ncaur.gov. For application package, contact: Patricia Jennings, Telephone: 301-344-1258. Applications in response to this advermarked by June 28, 1996. Incomplete applications will not receive consideration. USDA/ARS is an Equal Oppor tunity Employer.

The Department of Ecology and Evolutionary Biology at Rice University seeks a LABORATORY COOR-DINATOR, a staff position, (with complementary parttime lecturer appointment) to teach and develop advanced laboratory modules covering topics such as ecology, behavior, evolution, and conservation biology. Involvement of undergraduates in independent research interests is expected. One year of field biology experience is essential. A Master's degree in a biology related field is required but a Ph.D. is preferred. Candidate must also have at least two years of teaching experience at the high school or college level. Interested applicants should send a résumé and three letters of reference to: J. M. Smith, Employment Office, Rice University, MS 56, 6100 Main Street, Houston, TX 77005-1892. All submission materials must be postmarked before 15 June 1996. Rice University is committed to Affinative Action and Equal Opportunity in employment.

#### ENDOWED CHAIR MEDICAL GENETICS

The Department of Pediatrics is soliciting applications for a nationally recognized medical geneticist as Section Head of Medical Genetics at the ASSOCIATE PRO-FESSOR/PROFESSOR level. This is a challenging opportunity for an individual with leadership qualities and research expertise to further develop an established medical genetics program emphasizing education, research and service excellence. Applicants should forward curriculum vitae, letter of interest, and the names of three references to: Jon Abramson, M.D., Department of Pediatrics, Bowman Gray School of Medicine, Winston-Salem, NC 27157. Alfimative Action/Equal Opportunity Employer. POSITIONS OPEN



#### FORMULATION SCIENTIST

We seek a highly motivated **SCIENTIST** to join our team of gene delivery researchers engaged in the design, preparation, and characterization of novel lipid-based systems for tissue-specific gene delivery. To qualify, you will have experience working in interdisciplinary teams, at least a B.S., an M.S., or a Ph.D. in chemistry or pharmaceutical sciences, and excellent formulation and analytical skills such as chromatography and analytical spectroscopy. You will also have outstanding written and oral communication skills and demonstrated proficiency in data and statistical analyses.

Genemedicine, Inc. offers career growth and highly competitive compensation and benefits packages. For confidential consideration, please send a résumé to: Genemedicine, Inc., Attention: Human Resources, 8301 New Trails Drive, The Woodlands, TX 77381-4248. FAX: 713-364-0858. Equal Opportunity Employer.

#### ASSISTANT OR ASSOCIATE PROFESSOR Medical Physicist in Nuclear Magnetic Resonance and Medical Imaging

A tenure-track or tenured position of medical physicist in the Department of Radiology at the University of Minnesota will be offered at the **ASSISTANT** or **AS**-SOCIATE PROFESSOR level. The individual will conduct MR research in neuroradiology and MR at 1.5 Tesla on echoplanar-capable Philips and Siemens MR scanners. Minimum requirements at the Assistant Professor level are a Ph.D. in physics or chemistry, a strong background in mathematics, and at least two years of experience in techniques of MR imaging, MR spectroscopy, and MR angiography with a suitable publication record in peer-reviewed journals. Appointment at the rank of Associate Professor requires a minimum of five years of research experience in the same research areas and an extensive publication record. In addition, the successful candidate must be able to demonstrate expertise and publications in endovascular and cardiovascular interventional MR techniques, experience with interventional MR equipment, with special experience in RF coil design. The candidate should also have familiarity with Philips MR scanners and programming language, MR-compatible materials, and contrast agents. Salary is negotiable and competitive. Applications will be accepted through July 12, 1996. Send letters to: Dr. E. Russell Ritenour, Director, Physics Section, Department of Radiology (Box 292 UMHC), 420 Delaware Street SE, Minneapolis, MN 55455. The University of Minnesota is an Equal Opportunity Employer and Educator and specifically invites and encourages applications from women and minorities.

#### CALIFORNIA INSTITUTE OF TECHNOLOGY ASSISTANT PROFESSOR OF GEOLOGY

Applications are being accepted for a tenure-track faculty position in geology in the Division of Geological and Planetary Sciences at the ASSISTANT PROFES-SOR level. The initial appointment is for four years. It is possible that a candidate with exceptional qualifications may be considered for a position at a higher level. A strong commitment to innovative research utilizing the geologic record to investigate fundamental processes in the evolution of the earth and to teaching at both the undergraduate and graduate level is expected. We are particularly interested in scientists whose work relates to 1) development of quantitative methods for understanding processes in the deep crust and upper mantle; and 2) surficial systems, with emphasis on the development and evolution of geomorphic surfaces, chemical sedimentation, and the record in sediments of climatic and earth dynamic processes

A curriculum vitae including a list of publications, a brief description of proposed research activities, and names of three referees should be sent to: **Professor Ed**ward M. Stolper, Chairman, Division of Geological and Planetary Sciences, Mail Stop 170-25, California Institute of Technology, Pasadena, CA 91125. The California Institute of Technology is an Equal Opportunity/

The California Institute of Technology is an Equal Opportunity/ Affirmative Action Employer. Women, minorities, veterans, and disabled persons are encouraged to apply.

The Department of Veterinary Pathobiology, Texas Veterinary Medical Center, Texas A&M Univer-sity, invites applicants for at least three tenure-track faculty positions. Appointments will have approxi-mately 70% effort in research and 30% effort in teaching/service responsibilities. Candidates will be expected to establish and maintain a vigorous and independent, extramurally funded research program. Research focus should complement the departmen-tal themes of parasitology, mechanisms of infec-tious diseases, pathogenesis, and genetics of host resistance to disease. One position will require a DVM or equivalent degree, ACVP certification or eligibility, and participation in anatomic pathology teaching and necropsy/biopsy service as part of the position's 30% teaching/service effort. The addi-tional positions require a Ph.D. or equivalent degree. The 30% teaching/service effort of these two other positions will be teaching at the undergraduate, professional, or graduate level in the respective areas of expertise. Appointments are for 12 months with a competitive salary, laboratory space, and start-up support available. Departmental core facili-ties include: automated DNA sequencing and oligo-nucleotide synthesis; flow cytometry; gene target ucleotide synthesis; flow cytometry; gene target-ing/transgenic mice; morphometric analysis/gel documentation; and histology/immunohistochem-istry/insitu PCR. College facilities provide an ACAS/ Confocal/EM image analysis core. Academic disci-Istry/in situ/PCR. College facilities provide an ACAS/ Confocal/EM image analysis core. Academic disci-plines of the department include parasitology, ana-tomic pathology, and molecular genetics. The department's approximately 45 faculty and 70 gradu-ate students participate in diverse research activities including established campus-wide programs in ge-netics, toxicology, nutrition and neurosciences. Re-view of applicants will begin immediately and con-tinue until these positions are filled. Applicants should send a curriculum vitae, a statement of re-search interests and goals, periment reprints, and a list of three references to: Dr. Jim Womack, Chair of Search Committee, Department of Veterinary Pathobiology, Texas Veterinary Medical Center, Texas A&M University, College Station, TX 77843-4467. Telephone: (409) 845-9810, FAX: (409) 845-9972. Additional departmental informa-tion, including current faculty interests, may be viewed via WWW at http://cvm.tamu.edu/~vtpb. Texas A&M University is an equal opportunity em-ployer committed to excellence through diversity, and encourages applications from women and mi-verview. and encourages applications from women and minorities

### Newly Formed **Department** of **Molecular Biology**

The Masonic Medical Research Laboratory, a not-for-profit independent basic biomedical research institute located in Upstate New York, invites applications for its newly formed Department of Molecular Biology. Positions at all levels are available, including the position of Director of the program. Ph.D. and/ or M.D. candidates with experience and interest in molecular biology aspects of the electrical function of the heart will be given preference. Appointees will have the opportunity to collaborate with our well-recognized Experimental Cardiology team (electrophysiologists working at the single cell, tissue, organ, and in vivo levels) as well as our Immunology group. A distin-guished record of scientific achievement and a solid track record of extramural grant support are a must. To apply, send a letter of application, a curriculum vitae, and names and addresses of three references to: Dr. Charles Antzelevitch, Director, Masonic Medical Research Laboratory, 2150 Bleecker St., Utica, NY 13501.

Equal Opportunity/Affirmative Action Employer

### **Postdoctoral Positions Cell Biology of Development**

The Worcester Foundation for Biomedical Research has several openings for Postdoctoral scientists on a recently funded National Institutes of Health training grant entitled The Cell Biology of Development. These positions may be filled only by US Citizens or Permanent Residents. A list of faculty and their research interests are shown below:

F. Rob Jackson, Ph.D. - Molecular and cellular analysis of the Drosophila circadian timing system.

Michele Jacob, Ph.D. - Regulation of neuronal synapse formation - changes in gene expression that underlie synaptogenesis; and the targeting components to synaptic microdomains.

Daniel Kilpatrick, Ph.D. - Transcriptional control of spermatogenesis and neuronal differentiation.

Elizabeth Luna, Ph.D. - Structure, function, and regulation of membrane skeletons in motile cells.

Thoru Pederson, Ph.D. - RNA processing and trafficking; ribonucleoproteins.

Joel D. Richter, Ph.D. - Post-transcriptional regulation of Xenopus and mouse development.

Alonzo Ross, Ph.D. - Neurotrophin receptors and differentiation of neural tumors.

Richard Vallee, Ph.D. - Microtubule motor proteins: role of dynamin in endocytosis and synaptic function.

Worcester Foundation FOR BIOMEDICAL RESEARCH

Greenfield Sluder, Ph.D. - Checkpoint controls for entry into mitosis and anaphase onset; control of centrosome reproduction.

Yu-li Wang, Ph.D. - Mechanism of cytokinesis; regulation and dynamics of actin structures in cultured cells.

George Witman, Ph.D. - Molecular genetic analysis of dynein and flagellar motility; photosensory transduction in Chlamydomonas; mammalian sperm maturation

David Wolf, Ph.D. - Structure, function and dynamics of the nerve growth factor receptor.

Paul Zamecnik, Ph.D. - Antisense inhibition of viral and parasitic diseases.

Please send curriculum vitae and names of three references to the faculty member(s) of interest, c/o Human Resources, Worcester Foundation for Biomedical Research, 222 Maple Avenue, Shrewsbury, MA

> 01545, USA. An Equal **Opportunity/Affirmative Action** Employer M/F/H.



### RICE UNIVERSITY INSTITUTE OF BIOSCIENCES AND BIOENGINEERING NASA Specialized Center of Research and Training (NSCORT) in Gravitational Biology

A new NSCORT has been established in the Institute of Biosciences and Bioengineering at Rice with research projects also at the Johnson Space Center. Immediate and future postdoctoral and graduate positions in the area of Gravitational Biology, in particular the investigation of the effects of gravity and other environmental factors on biological function at the cellular and molecular level, are available. The goal of the Rice NSCORT is to develop a high quality training and research program to establish a NASA-university base for space-related research. Major research projects span a wide range of interests and include:

- Molecular and Developmental Responses of Plants to Mechanical Stimuli (Janet Braam) Pressure-Sensing MAP Kinase Cascades in Yeast and Mammals (Michael Gustin) Laminar Fluid Flow Effects on Mammalian Cell Protein Synthesis and Secretion (Larry V. McIntire) Role of Gravity in Early Embryonic Pattern Formation (Kate Beckingham) Role of Gravity in the Development and Function of the Drosophila Nervous System (Michael Stern) Regulation of G1 Cyclins and their Cyclin-Dependent Kinases During T Cell Activation in Hypogravity Culture (Clarence F. Sams, Johnson Space Center) Microgravity Induced Changes in Lymphocyte Movement Through Interstitium (Neal Pellis, Johnson
- Microgravity Induced Changes in Lymphocyte Movement Through Interstitium (Neal Pellis, Johnson Space Center)

- Space Center, Microgravity Effects on Lymphocyte Adhesion and Motility (Kyriacos Zygourakis) Mechanical Load Effects on Bone Formation (Antonios G. Mikos and Peggy Whitson)<sup>c</sup> Mechanical Loading, Growth Factor Release and Regulation of Skeletal Muscle Mass: A Potential Site for the Application of Microgravity-Induced Muscle Atrophy Countermeasures (Daniel L. Feeback, Johnson Science Center) Snace Center)
  - Hypergravity and Simulated Hypogravity Effects on Cytoskeletal Components of Attachment-Dependent Cells and Suspension Cells (Peggy A. Whitson and Clarence F. Sams, Johnson Space Center) Microgravity: Effects on Microbe-Host Interactions (George Bennett and Frederick Rudolph)

### POSTDOCTORAL POSITIONS IMMEDIATELY AVAILABLE

- To study mechanical load effects on osteoblast gene expression and bone formation using three-dimensional osteoblast cultures (Antonios G. Mikos)
- To examine the effects of mechanical and gravitational forces on cytoskeletal function and stress response gene expression in Drosophila melanogaster (Kate Beckingham)

Applicants should send a CV, three letters of reference, and a statement of research interests to: Dr. Frederick B. Rudolph, Institute of Biosciences and Bioengineering, NSCORT Project, Rice University -MS 144, 6100 S. Main, Houston, Texas 77018, Phone: (713)527-4015; EMail: fbr@rice.edu; Fax: (713)285-5154. Rice University is an equal opportunity employer.

### POSITIONS OPEN

#### INVESTIGATOR, SURGICAL ONCOLOGY

ASSISTANT or ASSOCIATE PROFESSOR level. The Cancer Institute of New Jersey and the Department of Surgery at the University of Medicine and Dentistry New Jersey (UMDNJ)-Robert Wood Johnson Medical School is seeking an Investigator in the field of surgical oncology. The successful candidate should possess an M.D. or Ph.D. in the areas of surgical oncology, tumor biology, molecular genetics, molecular biology, gene therapy, or a related field. Attractive start-up funds, new laboratory space, and a collaborative environment for translational research and fundamental research in several areas of oncology and molecular biology are available. Applicants should submit curriculum vitae to: T. S. Ravikumar, M.D., Chair, Search Committee, UMDNJ-The Cancer Institute of New Jersey, 303 George Street, Suite 501, New Brunswick, NJ 08901. UMDNJ is an Affirmative Action/Equal Opportunity Employer, Minorities/ Females/Disabled/Veterans, and a member of the University Health System of New Jersey. Minorities and women are encouraged to apply.

#### ASSISTANT PROFESSOR Fisheries, Animal and Veterinary Science (Shellfish Pathology)

Ph.D. or D.V.M. and postdoctoral experience in fish/ shellfish pathology, invertebrate pathology, or microbiology are required. Preference will be given to candidates with evidence of previous work experience with the commercial aquaculture and/or fishing industries and with the pathology of clams and oysters. Must demonstrate commitment to undergraduate and graduate teaching, and potential for research and scholarly activity. This is a **TENURE-TRACK**, academic year position beginning in September 1996. Send curriculum vitae and names and addresses of three references by June 21, 1996 to: Anthony Mallilo, Search Committee Chair, Log (Number 191152), University of Rhode Island, P.O. Box **G**, Kingston, RI 02881. The University of Rhode Island is an Affirmative Action/Equal Employment Opportunity Employer and is committed to increasing the diversity of its facility, staff and students. People from under-represented groups are encouraged to apply.

COGNITIVE NEUROSCIENTIST (Ph.D.) at postdoctoral or faculty level, for research in patients and normal subjects, using depth electrode recordings, computerized paradigms, and "MRI. Send curriculum vitae and letter of interest to: M. M. Mesulam, Center for Cognitive Neurology, Northwestern University Medical School, 320 East Superior Street, 11-450, Chicago, IL 60611. Affinantive Action/Equal Opportunity Employer.

#### FACULTY POSITION PSYCHIATRIC NEUROIMAGING RESEARCH

The University of North Carolina School of Medicine at Chapel Hill is seeking candidates for a tenured (or tenure-track) **FACULTY** position to provide leadership in neuroimaging research for the Department of Psychiatry and the Mental Health and Neuroscience Clinical Research Center. Candidates should have an M.D. or Ph.D. and postdoctoral training in psychiatry or psychology, together with expertise in morphologic/morphometric and/or functional magnetic resonance imaging and spectroscopy and a documented record of accomplishment in the area of psychosis and/or affective disor ders research. The successful candidate will work in collaboration with a team of MHCRC investigators from both the University of North Carolina and Duke University, and will be expected to obtain support to develop his or her independent research as well. Faculty appointment and salary will be commensurate with the candidate's level of experience and accomplishment.

Interested applicants should send a curriculum vitae, statement of research interests, and three letters of reference to: Jeffrey A. Lieberman, M.D., Vice Chairman, Department of Psychiatry, Chair of Search Committee, Campus Box 7160, University of North Carolina School of Medicine, Chapel Hill, NC 27599-7160. The search will be continued until the successful candidate is found.

### POSITIONS OPEN

#### TENURE-TRACK, ASSISTANT PROFESSOR Department of Microbiology and Immunology Virginia Commonwealth University

Tenure-track ASSISTANT PROFESSORSHIP in the Department of Microbiology and Immunology at Virginia Commonwealth University. The successful candidate is required to have formal training and expertise in molecular microbiology with emphasis in mechanisms of pathogenesis or gene expression in lower eukaryotes. Applicants must hold a Ph.D. or equivalent degree and have at least two years of productive postdoctoral experience. Successful applicants expected to develop and maintain strong, grant-supported independent research program including training of graduate students and postdoctorals. Participation in graduate and professional level teach-ing and service activities is required. Send a statement of research interests, a curriculum vitae, and arrange submission of at least three letters of reference by 31 July 1996 to: Dr. Francis L. Macrina, Box 980678 MCV, Richmond, VA 23298-0678. Virginia Commonwealth University is a culturally diverse, Equal Opportunity/Affirmative Action Employer. Women, minorities, and persons with disabilities are encouraged to apply.

### ASSISTANT PROFESSOR University of California, Irvine

Applications are invited for a **TENURE-TRACK FACULTY** position in the Department of Biological Chemistry, College of Medicine, University of California, Irvine. Candidates whose research interests lie primarily within the general fields of molecular biology and biochemistry are encouraged to apply. The successful candidate is expected to develop a strong, independent research program; participate in the interdepartmental graduate program; and contribute to graduate and medical teaching. Interested individuals holding the Ph.D. or M.D./Ph.D. degree may apply by sending a letter of interest, curriculum vitae, outline of proposed research program, and three letters of reference prior to September 1, 1996 to: Chair, Biological Chemistry, Scalce of Medicine, University of California, Irvine, CA 92717-1700\*\*. (\*\*Please note: After July 1, 1996, use the following zip code: 92697-1700.)

The University of California, Irvine is an Equal Opportunity/ Affirmative Action Employer.

We are seeking a SPECIALIST in statistical and computing applications to entomological research. Responsibilities will include experimental design and analysis and support for computer applications within the Department of Entomology. It is also intended that the person will devote a large proportion of time to the development of collaborative and independent research programs. Applicants should have an M.S. or Ph.D. in a quantitative biological or agricultural discipline and experience with application of statistical and computer techniques in their research. Some knowledge of statistical packages and computer hardware/operating systems is needed and expertise in modeling or GIS would be an advantage. Salary in the range of \$35,004 to \$42,000. Review of candidates begins June 14, 1996. For further details and an application package contact: Paul C. Jepson, Department of Entomology, 2046 Cordley Hall, Oregon State University, Corvallis, OR 97331. Telephone: 541-737-4733; Email: jepsonp@bcc.orst.edu.

Oregon State University is an Equal Employment Opportunity Employer and has a policy of being responsive to the needs of dual-career couples.

#### POSTDOCTORAL POSITION Cellular Neurophysiology and Imaging

Available approximately September 1996 to study the properties and function of dendrites of neurons in brain slices. Some experience with whole cell recording required. Send curriculum vitae, including names of references, to: Dr. William Ross, Department of Physiology, New York Medical College, Valhalla, NY 10595. Email: ross@nymc.edu. An Equal Opportunity/Affinnative Action Employer.

#### POSITIONS OPEN

#### MEDICAL COPYWRITER

Sandler Communications, a medical advertising agency, is seeking applicants for a **MEDICAL COPYWRIT**-**ING** position. The successful applicant will have at least a Master's degree in biology, pharmacology, or another biomedically related discipline. He or she must be a skilled writer and have a strong creative flair, since the position will involve developing promotional as well as technical copy. Starting salary will be commensurate with training and experience. Benefits include paid hospitalization and life insurance. This is an outstanding opportunity for a scientifically trained person with a strong creative spark who would like to begin a career in pharmaceutical communications. Send résumé, a brief letter analyzing your favorite ad in this week's *Science*, the names of three references, and a sample of your technical writing to: **Creative Director, Sandler Communications, 100 Fifth Avenue, New York, NY 10011.** Equal Opportunity Employer.

#### ASSISTANT EDITOR

Nature Medicine is seeking an **ASSISTANT EDI-TOR** to join its editorial staff in Washington, D.C. This is a new position created in response to the rapid growth of Nature Medicine. The successful candidate will participate in all aspects of the editorial process, with a focus on the selection of manuscripts. We are seeking someone with an M.D. or Ph.D. in molecular biology, excellent literary skills, and broad interests in biomedical research and the communication of science. Please mail a curriculum vitae with three references, and a brief cover letter outlining your qualifications for the position, to:

> Nature Medicine 545 National Press Building Washington, DC 20045 FAX: 202-626-0970 Email: medicinc@naturedc.com

Nature Medicine is an Equal Opportunity/Affirmative Action Employer.

#### RESEARCH IMMUNOLOGIST

The Division of Infectious Diseases, Department of Medicine, and the Department of Microbiology and Imnunology at the University of Kentucky School of Med-icine invite applications for a tenure-track faculty position at the ASSISTANT or ASSOCIATE PROFESSOR level with emphasis on the study of murine lung immune responses to infectious diseases. A Ph.D. or equivalent and postdoctoral experience in the study of microbial pathogenesis, especially virology and/or parasitology, is desirable. The successful applicant will be responsible for maintaining a competitive research program in conjunction with the division director, Dr. Claire Pomeroy, and collaborating with other faculty and trainees. Ability to generate an independently funded research program is required. Applicants should submit a curriculum vitae, summary of research interest, and names of three references to: Division of Infectious Diseases, Room K524, Kentucky Clinic, University of Kentucky Medical Center, Lexington, KY 40536-0284. Applications will be accepted until July 1, 1996.

The University of Kentucky is an Equal Opportunity/Affirmative Action Employer.

#### POSTDOCTORAL FELLOW Clinical Microbiology

**POSTDOCTORAL FELLOW** sought for position in a laboratory performing research on penicillin-resistant pneumococci. A collection of strains from all over the world is available. Work will entail clonal epidemiological analysis of these strains by penicillin binding protein, multilocus enzyme electrophoresis, and pulse field gel electrophoresis analysis. Send letter of application and résumé to: Peter C. Appelbaum, M.D., Ph.D., Department of Pathology, Hershey Medical Center, 500 University Drive, P.O. Box 850, Hershey, PA 17033-0850. Telephone: 717-531-5113; FAX: 717-531-3803 or 3976. For your health, Hershey Medical Center is a snoke-free campus. We are an Equal Opportunity/Affinative Action Employer. Women and minorities are encouraged to apply.

### RESEARCH ASSOCIATE

DNX Transgenics is a leader in providing transgenic animal production and research capabilities to the biomedical research community. Due to consistent growth requirements from our biotechnology and pharmaceutical clients, an opportunity exists for a Research Associate-Animal Science, to conduct transgenic animal projects and be a member of our Animal Resources Management Team.

Qualified candidates should have a B.S. in Animal Science (or related field) with 5-10 years of experience in animal science and SPF rodent colony operations. Familiarity with the operation of a transgenic animal facility and molecular genetics is preferred. AALAS certification as a Laboratory Animal Technologist required. Good communication and computer skills a must.

DNX offers competitive salary, comprehensive benefits package and an excellent working environment. Please send curriculum vitae and ref-

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rences to: Human Resources, DNX Corporation, 575 Route 28, Raritan, NJ 08869. EOE. The fundamentals of tomorrow's medical answers start here BioChem Therapeutic Inc., a subsidiary of BioChem Pharma Inc., is a Canadian-based pharmaceutical company located in Laval, Quebec, and dedicated to the research, development and commercialization of innovative products for the detection, prevention and treatment of human diseases.

BioChem Therapeutic Inc. and Beth Israel Hospital Harvard Medical School have formed an alliance for the discovery of anticancer drugs emerging from the laboratory of Dr. Harold F. Dvorak and collaborators that act against novel molecular targets in angiogenesis. Within the scope of this alliance, we are currently seeking a candidate for the position of

### Associate Director, Cancer Biology LOCATION: MONTREAL, CANADA

Reporting to the Director of Biology, you will be responsible for managing the Montreal Cancer Biology research group, composed of ten scientists, and help coordinate angiogenesis research efforts between the Montreal and Boston sites.

Your qualifications include a PhD and postdoctoral experience in cellular/molecular biology, combined with at least six years of experience in an appropriate field of cancer biology (current research activities, integrins, growth factor, biochemistry, DNA replication/repair).

If you share our commitment to excellence and demonstrate a capacity for teamwork, kindly send your resume to the Human Resources Department, BioChem Therapeutic Inc., 275 Armand-Frappier Blvd., Laval, Quebec, Canada H7V 4A7.

### **BIOCHEM PHARMA**

**BIOCHEM THERAPEUTIC** 

We offer a competitive salary, a full range of benefits and equal employment c opportunities to all.

### Chairman, Department of Biochemistry and Molecular Biology Medical College of Ohio

The Medical College of Ohio invites applications for the position of professor and chairman of the Department of Biochemistry and Molecular Biology. Candidates must have a Ph.D. or M.D. degree (or their equivalents) and have an outstanding record of scientific accomplishments, research funding, graduate and medical education, and evidence for administrative and leadership ability. The successful candidate will lead a strong department of eleven fulltime faculty with strengths in molecular biology, enzymology, peptide chemistry and regulation of cell growth.

The Medical College of Ohio is a free-standing, state-supported institution with outstanding modern educational, research and clinical facilities. We seek an energetic and highly interactive chairperson who will promote the future growth of the department to implement the missions of the School of Medicine and the College. To apply, send a curriculum vitae and the names of three references to:

> John P. Rapp, D.V.M., Ph.D. Chairman, Biochemistry Search Committee Professor and Chairman Department of Physiology & Molecular Medicine Medical College of Ohio P.O. Box 10008 Toledo, Ohio 43699-0008

Home Page Address is: http://www.mco.edu

The Medical College of Ohio is an Affirmative Action/Equal Opportunity Employer Mallinckrodt Veterinary, Inc., a global animal health company, is increasing its focus on the development of vaccines to prevent animal diseases and infections. We have several immediate openings for highly motivated professionals to join our Viral Vaccine Development and Immunology/Parasite Vaccine Development Groups at our state of the art global Science and Technology Center in the north Chicago suburb of Mundelein, Illinois.

### VIROLOGISTS, IMMUNOLOGISTS AND PARASITOLOGISTS

We are seeking experienced Research Scientists at all levels to assist in the development and assessment of animal vaccines. Research Scientists (DVM and/or Ph.D.) positions are required in the areas of virology, parasite immunology and cellular and/or molecular immunology. Associate and Assistant Research Scientist (MS/BS) positions are required with expertise in the above disciplines as well as cell and tissue culture, hybridoma technology for the production of monoclonal antibodies. Technicians (BS) are also encouraged to apply.

Mallinckrodt offers excellent compensation and benefits, including 401(K) and stock options, and an excellent potential for growth. For consideration, please send your resume with salary history to: **Mallinckrodt Veterinary**, **Attn: Human Resources Dept. SCI, 421 E. Hawley St., Mundelein, IL 60060. FAX: 847-949-3476.** Equal Opportunity Employer.

### MALLINCKRODT VETERINARY

### POSITIONS OPEN

### POSTDOCTORAL FELLOWS

Two POSTDOCTORAL/RESEARCH ASSOCI-ATE positions available June 1996 for recent graduates (Ph.D. or M.D./Ph.D.) in cellular or molecular biology with interests in signal transduction and cancer invasion of metastasis. The first project involves the signaling mechanism(s) of lipoxygenase derived bioactive lipids, and the second involves the cloning of a novel lipid molecule receptor and lipoxygenase enzyme binding proteins. The work involves state-of-the-art molecular and cellular biological techniques. Candidates should have experience in one or more of the following areas: molecular biology including cloning, protein-protein interaction, signal transduction or eicosanoids. Preference will be given to candidates with demonstrated research ability and strong written communication skills. Minimum salary: \$27,000 dependent upon experience. Please send 1) brief statement of research interest, capabilities, and goals; 2) curriculum vitae; 3) addresses, fax, and telephone number(s); and 4) three references to: Dr. Kenneth V. Honn, Professor, 431 Chemistry, Wayne State University, Detroit, MI 48202. Email: KHONN@CMS. CC.WAYNE.EDU. Wayne State University is an Equal Op-portunity/Affinnative Action Employer. All buildings, structures, and vehicles at Wayne State University are smoke-free. Wayne State University-People working together to provide quality service.

#### POSTDOCTORAL POSITIONS

The molecular pathogenesis of adenovirus and the development of novel adenovirus gene therapy vectors. Research on the mechanism by which adenovirus proteins inhibit and promote apoptosis; inhibit CTL killing; affect TNF, Fas, and EGF signaling; inhibit inflammation in transgenic mouse models; and are sorted to cellular organelles. Experience in molecular/cellular biology or immunology is required. Send curriculum vitae and names of three references to:

> William S. M. Wold, Ph.D. Professor and Chairman Department of Molecular Microbiology and Immunology St. Louis University School of Medicine 1402 South Grand Boulevard St. Louis, MO 63104

Equal Opportunity Employer.

**POSTDOCTORAL POSITION** available to study ApoE/lipoprotein expression and function in Alzheimer's disease and animal models. Experience with cell culture, neuroanatomy, molecular biology, and lipoprotein biochemistry highly desirable. One to two years of support available; collaborative opportunities with UCLA ADC. Send curriculum vitae, statement of research experience, and references with addresses and telephone numbers to: Gary Small, M.D., UCLA Neuropsychiatric Institute, 760 Westwood Plaza, Los Angeles, CA 90024.

#### POSTDOCTORAL RESEARCH ASSOCIATE

Positions are available on an ongoing basis to conduct research within different research groups in the Institute of Molecular Biology at the University of Oregon. The purpose of this notice is to establish and maintain a pool of qualified applicants. Ph.D. in molecular biology or related field is required. Salary dependent upon experience. For application materials, **Telephone: 541-346-5151; Email: rita@prospero.uoregon.edu.** An Equal Opportunity/Affinative Action Institution committed to cultural diversity and compliance with the ADA. Women and minorities are urged to apply.

### BIOMEDICAL SCIENTIST/ INTERNET SPECIALIST

Noncommercial biomedical corporation needs **SCI-ENTIST** to develop and present seminars about the Internet. Audience: professional groups. Should have M.S. or Ph.D. degree in health field. Excellent pay. Applicant must be willing to travel and speak two to three times a week. No need to relocate. Write: **Biomed**, **2425-B Channing Way**, **Suite 457**, **Berkeley**, **CA 94704**. **FAX: 510-652-1859**.

### POSITIONS OPEN



#### SCHOOL OF MEDICINE DEPARTMENT OF CELL BIOLOGY POSTDOCTORAL POSITIONS

**POSTDOCTORAL POSITIONS** are available in a laboratory focused on signal transduction events in bone cell systems. Candidates should either have a recent Ph.D. or be after a first post-doctoral period in one of the following areas: cell and/or molecular biology, molecular genetics, biochemistry, signal transduction, or bone cell biology. The positions are for a minimum period of two years, starting any time between September 1996 and June 1997.

Interested candidates should send a curriculum vitae and the names of two references to: Dr. Roland Baron, Yale University School of Medicine, 333 Cedar Street, Building SHM-Room IE55, New Haven, CT 06510.

An Affirmative Action/Equal Opportunity Employer.

#### POSTDOCTORAL FELLOWSHIPS AT THE UNIVERSITY OF KANSAS MEDICAL CENTER Center for Reproductive Sciences Molecular and Cellular Aspects of Reproduction and Development

Faculty and research topics include: Glen Andrews gene expression in reproductive tract; S. K. Dey—embryo development and implantation; George Enders spermatogenic cell regulation; Joan Hunt—immunobiology of pregnancy; Girish Shah—pituitary gene regulation; Michael Soares—trophoblast differentiation and cell signaling; Joseph Tash—sperm motility regulation; Paul Terranova—cytokines and ovarian cell function; James Voogt—prolactin control; Michael Wolfe—regulation of gonadotropin gene expression. Support is provided by an NIH training grant for U.S.

Support is provided by an NIH training grant for U.S. citizens or permanent residents. Send a letter indicating research interest and preceptor choice(s), curriculum vitae, and three letters of recommendation to: Dr. S. K. Dey, Department of Physiology, Kansas University Medical Center, 3901 Rainbow Boulevard, Kansas City, KS 66160. Email: SDEY@KUMC.EDU. Minorities and uvonen are eurotraged to apply.

**POSTDOCTORAL POSITIONS:** NIH-funded positions to study structure and signaling mechanism of peptide hormone receptor involved in cardiovascular regulation. Strong background in protein chemistry, sitedirected mutagenesis, and/or protein expression is required. Send curriculum vitae and names of three references to: Dr. Kunio Misono, Department of Molecular Cardiology, Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44195-5071. Email: misonok@ccsmtp.ccf.org.

**POSTDOCTORAL POSITION** available August 1, 1996. Suppression of MHC class I and II gene expression is being studied. Background or experience in molecular biology is essential; basic knowledge of immunology and transgenic animal development is needed. Candidates apply to: Graeme L. Hammond, M.D., Department of Surgery, Yale University School of Medicine, 333 Cedar Street-121 FMB, New Haven, CT 06520. Equal Opportunity/Affinative Action Employer.

**POSTDOCTORAL FELLOWSHIP** in Bone Histomorphometry available immediately for work on experimental animals. Studies will include evaluation of new osteogenic therapies. Ph.D. required and position involves interactions with a large, multidisciplinary lab of Ph.D.s and M.D.s performing osteoporosis-related research. Salary and benefits are competitive. Send résumé and cover letter to: Ms. C. Farrell, P.O. Box 7210, Loma Linda, CA 92354.

### POSITIONS OPEN

RESEARCH ASSOCIATE: Using geochemistry methods, research tectonic evolution in relation to basin evolution, terrace uplift, and volcanic activity along Western Pacific Belt. Research trace metal elemental and isotopic geochemistry of granitoid and basalt. Use cleanroom chemical separation techniques for TIMS analysis. Perform coral and 230 Th dating and develop 231 Pa dating. Requirements: Ph.D. degree in mineral deposits or geochemistry. Three years of experience in job offered or in scientific research. Experience must include: three years of research in the field of trace metal elemental and isotopic geochemistry of granitoid and basalt and performance of 230 Th dating of coral, and clean-room and TIMS techniques; and nine months of experience researching tectonic evolution of Western Pacific Belt. Experience may be gained concurrently. 40 hours per week. \$35,578 per year. Must have proof of legal authority to work in the Ú.S. Send résumés, transcripts, and letters of reference confirming experience to: B. Abraham, MDES, 6-088, 390 North Robert Street, St. Paul, MN 55101.

**POSTDOCTORAL POSITION** available to study the mechanisms by which growing sensory axons choose the appropriate pathways to follow in the chick hindlimb. Research focuses on elucidating how specific molecules affect axonal interactions and thereby influence pathfinding decisions. Approaches include confocal microscopy, *in ovo* perturbations, and tissue culture assays. Send curriculum vitae and names of three references to: **Dr. Marcia Honig, Department of Anatomy and Neurobiology, University of Tennessee, Memphis, TN 38163.** University of Tennesse is an Equal Employment Opportunity/Affirmative Action/Title VI/Title IX/Section 504/ADA/ADEA Employer.

**POSTDOCTORAL FELLOWS**—Research positions available to study 1) the molecular mechanisms of a pleiotropic global regulator, *sar*, in *S. aurcus* pathogenesis; 2) the molecular interaction between *S. aurcus* and mammalian cells. Requires Ph.D. and experience in molecular biology and/or cell biology. Prior work with transcription regulation, protein-protein interaction, or mammalian signal transduction is desirable. Send curriculum vitae and three references to: Dr. Ambrose Cheung, Box 172, The Rockefeller University, 1230 York Avenue, New York, NY 10021. Email: cheunga@rockvax. rockefeller.edu.

**POSTDOCTORAL POSITION** in molecular parasitology available to study mitochondrial DNA replication proteins in trypanosomes. Ph.D. in biochemistry or molecular biology, experience in protein purification, and excellent English language skills required. Send curriculum vitae and names of three references to: Dr. Dan S. Ray, Molecular Biology Institute, UCLA, Los Angeles, CA 90095-1570. Email: danray@mbi.ucla.edu.

#### POSTDOCTORAL POSITION

University of California and Veterans Administration Medical Center (VAMC), San Francisco, has a position available immediately for a qualified individual to join a group studying the regulation of breast cancer by growth factors and hormones including vitamin D. Applicants should have a Ph.D. in molecular and/or cellular biology. Please send curriculum vitae and names of three references to: Daniel Bikle, M.D., Ph.D., Department of Medicine, VAMC (111N), 4150 Clement Street, San Francisco, CA 94121.

POSTDOCTORAL POSITION on team developing an instrument for 3D plant canopy imaging and simultaneous physiological monitoring. Machine vision and engineering experience required. Send letter, résumé, transcripts, and three letters of reference to: Dr. Naiqian Zhang, Biological and Agricultural Engineering, Kansas State University, Manhattan, KS 66506-2906. Kausas State University is an Affirmative Action/Equal Opportuuity Europoyer and encourages diversity autong its employees.

#### POSTDOCTORAL RESEARCH ASSOCIATE

Position available to study the role of neuronal growth factors in neuronal plasticity. Ph.D. in neuroscience-related area and experience with one or more of the following is required: tissue culture, stereotaxic surgery, molecular biology, immunohistochemistry, neurochemistry. Send curriculum vitae to: Keith Crutcher, Ph.D., Department of Neurosurgery, University of Cincinnati, Cincinnati, OH 45267-0515. http://crutcherlab.med. uc.edu. Affirmative Action/Equal Opportunity Employer.

### Tumor Postdoctoral Fellowship Positions

Immediate opening for two full-time Postdoctoral Fellowships in the Tumor Immunology Section, Surgery Branch, National Cancer Institute, National Institutes of Health, Bethesda, Maryland, to study the immune response to tumor cells in murine models and in humans.

We seek candidates with experience in molecular biology for one position, and someone with experience in cellular immunology for the second position. Ongoing projects include the study of breaking immune tolerance to tumor-associated differentiation antigens and the development of synthetic and recombinant anti-cancer vaccines.

Selections for these positions will be based solely on merit, with no discrimination for non-merit reasons such as race, color, religion, gender, national origin, politics, marital status, physical or mental disability, age, sexual orientation, or membership or non-membership in an employee organization. The NIH is an Equal Opportunity/Affirmative Action Employer.

Send cover letter, CV, and statement of research interests to: Steven A. Rosenberg, M.D., Ph.D., Chief of Surgery, National Cancer Institute, Building 10, Room 2B42, Bethesda, Maryland 20892-1502, (301) 496-4164. At Boebringer Ingelbeim, our commitment to innovative research and scientific exploration has made us a major international pharmaceutical company. Currently, our world-class team has an opportunity for a detail-oriented scientist to join us in our state-of-the-art

Connecticut facility.

The primary responsibility is optimization of protein expression in small scale cell culture, working with bacterial, insect cell and mammalian systems, specifically cell cloning, screening and selection of optimal cell lines for further scale-up.

Additional responsibilities include media optimization, assessment of cell line stability and support of transfer to pilot scale cell culture facility.

Qualified individuals will possess a Ph.D. in Molecular or Cellular Biology or related field with 1-3 years post doctoral experience. This team player will have 1-3 years experience in the aforementioned expression systems with effective communication and interpersonal skills, personal initiative, flexibility and possess the ability to work with colleagues from other disciplines to meet ambitious project objectives. Candidates with prior product development experience are especially encouraged to apply.

Boehringer Ingelheim's facility is located on a campus-like setting in a beautiful area of Western Connecticut, which borders New York State. We offer excellent facilities and a supportive and challenging environment. For an opportunity to contribute to our innovative programs, please send your resume and a brief cover letter to: **Boehringer Ingelheim Pharmaceuticals, Inc., Dept.** 

Boehringer Ingelheim

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heim Pharmaceuticals, Inc., Dept. MH-47-820, 900 Ridgebury Road, P.O. Box 368, Ridgefield, CT 06877. We are an equal opportunity employer. As a progressive health care company, we have a smoke-free environment.

### Institute for Genetic Medicine University of Southern California Assistant or Associate Professor

The Institute for Genetic Medicine and the Department of Surgery are seeking candidates with special research interests in molecular biology and genetics as they relate to human disease. The successful candidate will have a joint appointment in the Department of Surgery and in an appropriate basic science department of the School of Medicine. Candidates with a wide range of interests will be considered, including research activities involving development of models for human genetic disease, homologous recombination in embryonic stem cells, development of gene transfer vehicles including retroviruses and genetically engineered cells, the molecular genetics and biology of stem cells and cytokines, and the molecular genetics of human disease. Clinically based research could be an important component of the program. The faculty appointee must have a Ph.D. or M.D. degree and will be expected to interact with surgical faculty and fellows in addition to developing an independent research program and participating in both medical and graduate student teaching programs. Faculty members will be housed within newly remodeled space in the Institute for Genetic Medicine/Norris Comprehensive Cancer Center Gene Therapy Program. Candidates eligible for an associate professorial appointment should demonstrate evidence of extramurally funded and sustained research programs.

The University of Southern California and its Medical School have made a major commitment to building a program in gene therapy and genetic medicine. The faculty members will play a major role in defining the future expansion of the Institute for Genetic Medicine.

Candidates should send their curriculum vitae, bibliography, a statement of research and teaching interests and the names, addresses, fax numbers and e-mail addresses of three references to Laurence H. Kedes, M.D., Director, Institute for Genetic Medicine, University of Southern California, 2011 Zonal Avenue, HMR #413, Los Angeles, CA 90033

The University of Southern California is an equal opportunity affirmative action employer.

### ■ Associate Scientist -Probe Design/Bioinformatics

Ciba Corning, a Chiron business, is a leader in the delivery of critical care and immunodiagnostic systems. We are currently engaged in extending the branched DNA(bDNA) assay technology first introduced by Chiron Corporation. bDNA assays are being used successfully as metrics for therapies targeted against HIV, HBV and HCV (Therametric ™ assays).

As part of this program, we are looking for an Associate Scientist in the area of probe design / bioinformatics. You will be engaged in the development of novel software applications for probe design, modeling of probe interactions, and experimental verification of the same. Applicants should have excellent computer skills, including Visual Basic and C experience, formal training (MS or BS) in either the areas of molecular biology, biochemistry, or physical chemistry, and relevant work experience.

For confidential consideration, please forward your resume to: Job Code LS009, Human Resources Department, Ciba Corning Diagnostics Corp., 63 North St., Medfield, MA 02052. Or FAX resume to: (508) 359-3599. Our internet address is: jobs@cibadiag.com.

Ciba Corning is an Equal Opportunity/Affirmative Action Employer, M/F/D/V.



#### POSITIONS OPEN

#### POSTDOCTORAL RESEARCH UNIVERSITY OF ILLINOIS AT CHICAGO COLLEGE OF MEDICINE Transcriptional Regulation of Myeloid Genes Molecular Biology and Functions of Eosinophils

Positions available for two Ph.D.'s: 1) To characterize the regulatory regions of eosinophil genes, to clone and characterize transcription factors that regulate eosinophilspecific gene expression, and to study the role of these factors in eosinophil development and function. Genes under study include the alpha subunit of the IL-5 receptor, the granule cationic proteins, and eosinophil-generated cytokines. Molecular biology experience in gene reg-ulation/transcription factor research required. 2) To analyze structure-function relationships for granule cationic proteins and enzymes of eosinophils, studying their mechanisms of action in the pathogenesis of inflammation, tissue damage and airways dysfunction in asthma, allergic and other eosinophil-associated diseases. Experience in molecular and structural biology, protein engi-neering, expression and purification desirable. Send curriculum vitae and two reprints to: Steven J. Ackerman, Ph.D., Department of Biochemistry (M/C 536), University of Illinois at Chicago, A.312 College of Medicine West, 1819 West Polk Street, Chicago, IL 60612-7334. FAX: 312-413-0364.

University of Illinois at Chicago is an Affirmative Action/Equal Opportunity Employer.

Computing Services Director—Fixed term, 1.00 FTE 12-month non-tenure-track **FACULTY RESEARCH** ASSISTANT position with the Biology Computing Consortium (BCC) at Oregon State University (OSU), coordinating the development and operation of a large computer network system. The successful candidate will lead a team of BCC support personnel and departmental computer administrators in the provision of a state-ofthe-art computing environment for research and instruction. The post requires skills in UNIX and Novell file server support, the management and coordination of network services and computer service administration. The successful candidate will have a B.S. or M.S. in computer science or closely related field and applicable experience. Submit letter of application; curriculum vitae; and the names, addresses, and telephone numbers of three individuals who may be contacted for letters of reference to: Computing Services Director Search, Department of Entomology, 2046 Cordley, Oregon State Universi-ty, Corvallis, OR 97331-2907 by June 1, 1996. OSU is an Affirmative Action/Equal Employment Opportunity Employer and has a policy of being responsive to dual career needs.

**POSTDOCTORAL POSITION**—UCLA—Molecular Cardiology, available immediately to study integrin signaling and function in cardiac development and disease, using cell and transgenic models. Ph.D. or M.D. degree and expertise in molecular biology required; animal/physiology training helpful. Send curriculum vitae and names of three references to: Dr. Robert S. Ross, Department of Physiology, UCLA School of Medicine, Los Angeles, CA 90095-1751. Telephone: 619-552-8585 ext. 3817; FAX: 619-552-7490; Email: rross@ucsd.edu. The University of California is an Affirmative Action/Equal Opportunity Employer.

**POSTDOCTORAL POSITIONS** are available to study transcriptional and posttranscriptional regulation of gene expression in human and rodent hepatocytes. NIHfunded projects focus on cyclic nucleotide regulation of plasminogen activator inhibitor mRNA degradation, and on cytokine regulation of inhibitor gene transcription *in vivo* and *in vito*. Molecular biology experience is required. Send curriculum vitae, statement of research interests, and names of three references to: Dr. Thomas Gelehrter, Department of Human Genetics, Box 0618, University of Michigan Medical School, Ann Arbor, MI 48109-0618. Equal Opportunity/Affinative Action Employer.

#### UCLA NEUROSCIENCE

POSTDOCTORAL POSITIONS available immediately to study the structure, function, and biogenesis of voltage-dependent potassium channels. Experience in molecular biology, electrophysiology, or biochemistry is desirable. Send curriculum vitae and the names of three references to: Dr. Diane M. Papazian, Department of Physiology, Box 951751, UCLA School of Medicine, Los Angeles, CA 90095-1751. Email: papazian@ physiology.medsch.ucla.edu.

### POSITIONS OPEN

RESEARCH ASSOCIATE for university in central Ohio. Purifies an oncofetal protein (OFP); clones the gene encoding OFP and develops an expression system for the recombinant protein; performs clinical trials in both animals and humans and optimizes an ELISA test to determine the value of OFP in patient plasma; and explores the immunosuppressive function and immunotherapy of OFP. Master's in molecular genetics or biochem-istry and one year of experience in above-described duties or one year of experience in areas of protein purification, molecular cloning, and experimental animals, including the following techniques: 1) column chromatography, high performance liquid chromatography (HPLC), and fast performance liquid chromatography (FPLC), SDS-PAGE, spectrophotometer, and immunoblotting; 2) gene cloning, DNA sequencing, PCR, RNA and DNA extraction, RT-PCR, and Southern blot; 3) blood sampling and preparation, ELISA, experimental animal han-dling and dissecting, and statistical analysis; and 4) flow cytometry, phase-contrast and electron microscopy, fluorescent staining and microscopy, and cell culture. Experience may have been gained before, during, and after the degree. 40 hours per week, 8 a.m. to 5 p.m., Monday through Friday, \$22,500. Send two résumés and cover letters (no calls) to: L. Eggleston, Reference Number 1852, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216.

#### DNA SEQUENCING

A position is available for a **POSTDOCTORAL** scientist in a busy molecular diagnostic laboratory. Experience in automated DNA sequencing is required. The candidate will be expected to develop a new core diagnostic facility for sequencing genes associated with several human genetic diseases. Send curriculum vitae and three letters of reference to:

#### Box 67 Science 1200 New York Avenue, NW Washington, DC 20005

A POSTDOCTORAL POSITION is available in a project to perform functional analysis of the mouse genome. We have developed a method to create chromosomal deletion complexes in mice using ES cells. The deletion sets in defined regions will reveal new developmentally important genes, and assist in the analysis of the known mutations. Applicants should have molecular biology experience, and preferably some background in developmental biology. Contact: John Schimenti, Ph.D., The Jackson Laboratory, Bar Harbor, ME 04609. Email: js@aretha.jax.org; Telephone: 207-288-6402; http://lena.jax.org;80/~js/.

**POSTDOCTORAL FELLOWSHIP** positions— Yale University School of Medicine—in Cell and Molecular Physiology and Biology. Ph.D.'s or M.D.'s. Spectrum of basic science disciplines, especially molecular and cellular neurobiology. Special interests include mechanisms of cell injury as a result of environmental stress or cell death. Expertise in either electrophysiology or molecular genetics is desirable, including *Drosophila* genetics. *Must be U.S. citizens/permanent residents*. Please send curriculum vitae to: Gabriel G. Haddad, M.D., Department of Pediatrics, Yale University School of Medicine, 333 Cedar Street, FMP 506, New Haven, CT 06520. Yale University is an Equal Opportunity/Affirmative Action Employer.

A POSTDOCTORAL POSITION is available immediately to conduct a protein structure and function analysis of a site-specific DNA endonuclease. Research project will include isolation of mutant alleles using genetic techniques and characterization of mutual proteins. Strong background in biochemistry and molecular biology required. Send curriculum vitae and three letters of recommendation to: Frederick Gimble, Texas A&M University—IBT, 2121 West Holcombe Boulevard, Houston, TX 77030. Affinnative Action/Equal Employment Opportunity Employer.

POSTDOCTORAL POSITIONS available to study leukocyte motility in the nervous system, to start June 1997. Include a brief, specific description of the basis for your interest, relevant experience, and fellowships for which you are eligible. Experience in cellular immunology and/or cell migration studies is desirable. Reply to: Dr. L. Lampson, Laboratory of CNS Immunology and Tumor Biology, Neurology/LMRC 116, Brigham and Women's Hospital, Boston, MA 02115.

#### POSITIONS OPEN

#### **RESEARCH POSITIONS**

The Immunohematology/Immunochemistry Research Program of the Blood Research Institute seeks qualified individuals (M.D., Ph.D., M.D./Ph.D.) with research interests in vascular biology plus experience/expertise in protein chemistry, molecular biology, or cell biology. Candidates for postdoctoral fellowship training or for staff appointment will be considered. Please send résumé and references to:

Peter J. Sims, M.D., Ph.D. Associate Director, Research The Blood Center of Southeastern Wisconsin P.O. Box 2178 Milwaukee, WI 53201-2178

Equal Opportunity Employer.

**POSTDOCTORAL POSITIONS** are available to study the molecular biology of dopamine receptors and/ or G protein-activated inwardly rectifying K<sup>+</sup> channels. Areas of research include signaling mechanisms, structure-function analysis, neuropharmacology, and *in vivo* gene-transfer technology. The research is directed toward better understanding of the functional role(s) of novel receptor- and channel subtypes and their potential as therapeutic targets and/or role in mental disorders. Applicants with experience in the above mentioned research areas and/or a strong background in molecular biology, biochemistry, and/or viral-mediated gene transfer technologies or transgenic mice are preferred. Please send a curriculum vitae and three letters of reference to: Dr. Hubert H. M. Van Tol, Laboratory for Molecular Neurobiology, Clarke Institute of Psychiatry, Toronto, Ontario M5T 1R8 Canada.

**POSTDOCTORAL POSITIONS** available immediately to study the role of rho family GTPases in controlling cytoskeletal dynamics and/or immune cell function (T, B cells). Experience in live cell fluorescence imaging and background in immunology and/or the cell biology of the cytoskeleton would be valuable. This work involves a collaborative project between **Drs. Klaus Hahn** and **Gary Bokoch**. Send curriculum vitae and names of at least three references to: **Dr. Hahn, Department of Neuropharmacology IMM14, Scripps Research In**stitute, 10550 North Torrey Pines Road, La Jolla, CA 92037.

#### POSTDOCTORAL FELLOWSHIPS UNC Lineberger Comprehensive Cancer Center

Projects involve 1) a novel calcium-dependent nonreceptor tyrosine kinase, 2) c-mer, a novel receptor tyrosine kinase, and 3) EGF receptor family members in breast cancer. Send curriculum vitae and three reference letters to: Shelley Earp, CB Number 7295, Lineberger Cancer Center, University of North Carolina—Chapel Hill, NC 27599-7295.

**POSTDOCTORAL POSITION** available immediately to study the molecular biology and physiology involved in the biomineralization of magnetosomes within magnetotactic bacteria. Experience in modern molecular techniques is required and a strong chemistry background is a plus. Position is funded for approximately two years. Send curriculum vitae and the names of three references to: D. A. Bazylinski, Department of MIPM, 207 Science I, Iowa State University, Ames, IA 50011. FAX: 515-294-6019.

POSTDOCTORAL POSITION available immediately to study the role of paxillin and associated proteins in cell adhesion-related signaling and cytoskeletal organization. Experience in cell biology and/or molecular biology techniques essential. A background in cell adhesion desirable. Send curriculum vitae and references to: Dr. Chris Turner, Department of Anatomy and Cell Biology, SUNY Health Science Center, 750 East Adams Street, Syracuse, NY 13210. An Affinnative Action/Equal Employment Opportunity Employer.

**POSTDOCTORAL FELLOW** to isolate, characterize, and clone *Drosophila* 5S RNA and tRNA processing enzymes (see Vasisht et al., *JBC* 269:18, 468, 1994 and Levinger et al., *JBC* 270:18, 903, 1995). Qualifications include enzyme isolation and cloning experience and interest in RNA processing. Curriculum vitae and references to: Louis Levinger, Natural Sciences/Biology, York College/CUNY, Jamaica, NY 11451. FAX: 718-262-2652; Email: louie@mbrseyork.cuny.edu. Equal Opportunity/Affirmative Action Employer.

### Endowed Professorship in Soybean Biotechnology at the University of Missouri

The Plant Science Unit in the Col-lege of Agriculture, Food and Natural Resources invites applications for this tenure-track, 80% research, 20% teaching position. Research should focus on the development of soybean with one or more of the following characteristics: superior oil and protein, ability to produce pharmaceuticals and other compounds important to human and animal health, improved disease and insect resistance, stress tolerance, or other value-added traits. Research on efficient transformation and regeneration of soybean is also required. Teaching responsibilities will be either an undergraduate or graduate course in plant biotechnology, along with train-ing of graduate and postdoctoral stu-dents. Applicants should have a wellestablished, nationally/internationally recognized research program. A statement of research interests, a complete resume, and three letters of reference should be sent, by Septem-ber 10, 1996, to:

Dr. Dale G. Blevins Agronomy Department 205 Curtis Hall University of Missouri Columbia, MO 65211 Phone: (573) 882-4819 FAX: (573) 882-1469

An Equal Opportunity/Affirmative Action Employer

Assistant Professor (2 positions) Assistant/Associate Professor (1 position) (Tenure-Track) Coastal Ecology Institute and Department of Oceanography and Coastal Sciences

Required qualifications: earned doctorate (Ph.D. or equivalent degree) in marine science or related field; publication record in peer-reviewed journals; evidence of scholarly activity at level of proposedrank. Additional qualifications desired: Ph.D. from a Research 1 university; teaching experience; grant and/or contract experience; existing grant and/ or contracts; multidisciplinary research. Responsibilities: develop a program of externally funded research (research is expected to be reported in the peer-reviewed literature and to meet all grant/ contract obligations); develop and teach courses at the graduate and undergraduate level in DOCS and general area of coastal ecology and oceanography; serve unit, college, university, and national and international boards, committees, commissions, etc. Salary will be commensurate with qualifications and experience. Application deadline is July 30, 1996, or until candidates are selected. Submit letter of application, curriculum vitae, and names and addresses of three references to:

Dr. R. E. Turner, Director Coastal Ecology Institute 203B Coastal Studies Building Louisiana State University Baton Rouge, LA 70803 LSU is an Equal Opportunity/ Affirmative Action Employer

### **SCIENTIFIC APPLICATIONS SPECIALIST**

Amgen the world's largest biotechnology company, seeks the analytical talents of an experienced applications specialist to support our Research Staff.

In collaboration with the scientific staff, the incumbent will develop strategies for data analysis using available software, which may include performing the analysis. In addition, the incumbent will be responsible for recommending appropriate scientific software and demonstrating its use.

This position requires a BS degree in the Life Sciences or the equivalent and 3 years' experience in the laboratory, Sequence Analysis (GCG preferred), as well as experience with Macintosh, and UNIX/VMS is required. Familiarity with a broad range of scientific software such as data base, scientific graphing, statistics and image analysis as well as familiarity with chromatography and laboratory instrumentation is preferred.

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At Amgen, your accomplishments will be rewarded. Our generous compensation and benefits package includes a retirement and savings plan, an on-site fitness center and three weeks' vacation. For immediate consideration, mail your resume to: Amgen, Staffing Job Code: TPSC, P.O. Box 2569, Thousand Oaks, CA 91319-2569. E-mail: jobs@amgen.com Please consult our on line Job Bulletin Board at http://amgen.bio.com for information on other career opportunities available at Amgen. Principals only, please.

EEO/AA Employer M/F/D/V



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At PE Applied Biosystems, we're making some of the biggest breakthroughs in science happen. From advances on the Human Genome Project, to accelerated opportunities in bioresearch, we offer scientists the chance to break into an exciting career as a member of our breakthrough team. Currently, we're seeking a molecular biologist or biochemist to focus on process development and help us transition laboratory technology into commercial production.

Leading a project team, you will be involved in the commercialization of multicomponent kits for fluorescent DNA sequencing and PCR analysis. This will entail lab bench development, pilot scale-up, product/stability evaluation, procedural documentation, and a variety of other project coordination functions. You will need an MS/PhD in biochemistry or molecular biology with prior industrial development experience, including technical skills in DNA sequencing and PCR analysis; some HPLC and electrophoresis experience is desirable. Excellent written and oral communication skills are a must.

In exchange for your talents, we offer a competitive salary and benefits package with advancement potential for your career. For consideration, please send your resume to: PE Applied Biosystems, HR Department, 850 Lincoln Centre Drive, Ref #2185, Foster City, CA 94404. You may also fax to (415) 638-5874, e-mail us at biocareer@perkin-elmer.com or see our home page on the WWW at http://www.perkin-elmer.com for more details. PE Applied Biosystems is an equal opportunity employer.



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Creative BioMolecules is a biopharmaceutical company focused on therapeutics for human tissue regeneration. The company's therapeutics are based on proteins that act in initiating and regulating the cellular events involved in tissue formation.

#### Senior Scientist - Cartilage

If you're a highly motivated senior scientist with extensive experience in cartilage biology, we have a leadership position for you on a multi-disciplined team. You will be responsible for the development of protein based products for the repair of articular cartilage. To qualify, you must be an MD or PhD with 8+ years of appropriate experience. Pharmaceutical/biotechnology experience a plus.

### **Post Doctoral Fellows - Cell Biology**

To qualify, applicants must demonstrate exceptional knowledge in one of the following areas: manipulation of cell/organ cultures; in-vivo tissue regenerative models; matrix-cell interactions; and cellular/biochemical techniques relevant to tissue morphogenesis. PhD in Biology or Biochemistry along with 2-3 years of cell and developmental biology, experience in tissue formation/regeneration is required.

### Post Doctoral Fellows - Molecular and Developmental Biology

To qualify, applicants must have experience in several of the following technologies: RT-PCR, Differential Display, gene cloning, Northern Analysis, in-situ hybridiaztion and transgene or developmental studies.

Creative BioMolecules offers an excellent compensation and benefits package, including 3 week's vacation along with a company-matched 401 (k) plan and an employee stock purchase plan.

For immediate consideration please send or fax your resume, indicating position of interest, to:

Human Resources, Creative BioMolecules, 45 South Street, Hopkinton, MA 01748. Fax (508) 435-0992. An Equal Opportunity Employer. **Professor and Department Chair** 

The Department of Veterinary and Comparative Anatomy, Pharmacology and Physiology (VCAPP) at Washington State University invites applications for the position of Depart-ment Chair. VCAPP is one of three departments in the College of Veterinary Medicine. The department provides instruction in anatomy, cell biology, neuroscience, pharmacology and physiology in the veterinary and graduate curricula, and has strong research programs in neurosciences, neuroendocrinology, and cardiovascular/muscle physiology. The chair will provide leadership in curricular development and implementation and facili-tate faculty development in areas of teaching and research. He/she will serve as chief ad ministrator of departmental policies and chief representative of the department to the college and university. Maintenance of an independent research program is also expected. Candidates must have an earned doctorate degree in a biomedical discipline; an internationally recognized research program with a history of extramural funding; experience with graduate education and professional veterinary medical or medical teaching. Preference will be given to candidates whose research comple-ments the research programs of the Department of VCAPP. The expected starting date is between January 1 and June 1, 1997. Screening of applications will begin August 15, 1996, and continue until the position is filled. Send letter of application, curriculum vitae (including teaching, research, and funding histories), and names and addresses of five professional references to: Dr. Sue Ritter, Search Com-mittee Chair, Office of the Dean, Washing-ton State University, Pullman, WA 99164-7010, Phone: 509-335-8113. WSU is an EO/ AA educator and employer. Protected group members are encouraged to apply.

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### **Geneva Biomedical Research Institute** Glaxo Wellcome Research and Development S.A.

The Geneva Biomedical Research Institute (formerly the Glaxo Institute for Molecular Biology) is a state-of-the-art centre of scientific excellence. Its research is directed towards the discovery of novel molecular mechanisms that can be used as drug targets to treat serious diseases. The acquisition of microbial genomic sequence data has created a unique opportunity for three talented and experienced scientists with the following expertise:

### Genomic Sequencing Scientist

to determine the genomic sequences of pathogenic microorganisms at the Institute. Emphasis will be placed on approaches leading to improved sequencing strategies and comprehensive analysis of the acquired data.

The ideal candidate will have a Ph.D. and 3-5 years of postdoctoral experience in a highthroughput sequencing project. He/she will benefit from strong collaboration with inhouse bioinformatics and microbial genetics groups. Informal enquiries can be directed to Dr. Gary Buell (gb15879@ggr.co.uk; fax: +41 22 794 6965).

### **Bioinformatics Scientist**

who will have a strong background in genomic sequence analysis, evolution and biological pathways. Expertise in microbial biology would be an asset.

The ideal candidate will have a Ph.D. and 3-5 years of postdoctoral experience in bioinformatics. He/she will have a key role in a multidisciplinary team studying novel aspects of bacterial biology and identifying molecular targets for the development of novel antibiotics. Informal enquiries can be directed to Dr. Manuel C. Peitsch (mcp13936@ggr.co.uk).

### Microbiologist

The interplay of novel genetic approaches and proprietary bioinformatics software is to be used to identify and determine the function of previously unknown genes.

The ideal candidate will have a Ph.D. and 3-5 years of postdoctoral experience in the area of pathogen microbiology. The candidate will benefit from strong ties with inhouse bioinformatics and microbial genetics groups. Informal enquiries can be directed to Dr. Michael Edgerton (mde29396@ggr.co.uk, phone: +41 22 706 9852).

The Geneva Biomedical Research Institute is part of the Glaxo Wellcome group, one of the world's most successful healthcare companies which has an outstanding reputation for the quality of both its research and products.

If you are interested in these positions, please send your curriculum vitae with a list of publications and the names of three referees to: Mrs. Véronique Stofer, Personnel Manager, Geneva Biomedical Research Institute, Glaxo Wellcome Research and Development S.A., 14 chemin des Aulx, 1228 Plan-les-Ouates/Geneva, Switzerland. **GLOBAL CAREER OPPORTUNITIES** 

### THE UNIVERSITY OF GRONINGEN THE NETHERLANDS

invites applicants for the position of

### Professor of Theoretical Chemistry

(vacancy number: 960507)

at the Laboratory of Chemical Physics, Department of Chemistry.

We are looking for an outstanding scientist who will establish a strong program in quantum theoretical chemistry, with an emphasis on the development of first-principles computational methods. The candidate should be internationally recognized and have a strong publication record. He/she should have the ability to direct a research group and to teach undergraduate and advanced courses in physical and theoretical chemistry.

Apart from the Theoretical Chemistry group the Laboratory of Chemical Physics consists of three additional groups: Solid State Chemistry, Inorganic Thin Films and Laser Spectroscopy. All of these groups participate in the Materials Science Centre (MSC), a research school in which important parts of the Departments of Chemistry and Physics have been brought together. Within the MSC several other groups are active in the field of computational science. Cooperation with these groups is encouraged.

The Theoretical Chemistry group has access to excellent computer facilities both locally and nationally.

The appointment carries tenure. The salary will be between Dfl 8.005,- and Dfl 11.736,-per month, depending on qualifications.

Further information can be obtained from Prof. T. Hibma, chairman of the Search Committee, phone +31 50 3634438 or 3634440, E-mail address: T.HIBMA@PHYS.RUG.NL

The closing date for applications will be 22 June 1996. Applications with curriculum vitae, list of publications, photocopies of relevant certificates, an outline of research interests and names of three referees should be sent to the Head of the Personnel Department, University of Groningen, P.O. Box 72, 9700 AB Groningen, The Netherlands.

#### In der Fakultät für Chemie, Biologie und Geowissenschaften der Technischen Universität München (TUM) in Garching ist im Institut für Radiochemie zum Wintersemester 1996/97 eine **Professur (C4) für Radiochemie**

(Nachfolge Prof. Dr. F. Baumgärtner) zu besetzen. Der Stelleninhaber/in soll in der Lage sein, in der Lehre das Fach Radiochemie/Kemchemie in seiner vollen Breite zu vertreten.

Für die erwartete Forschungstätigkeit auf aktuellen Gebieten der Radiochemie stehen im Garchinger Institut umfangreiche Einrichtungen zum Umgang mit radioaktiven Stoffen und die Anbindungen an den Forschungsreaktor und an das Cyclotron zur Verfügung. Zu deren Betrieb und wegen der für staatliche Aufsichtsbehörden zu erfedigenden Aufgaben sind langjährige, einschlägige Erfahrungen unerläßlich.

Im Rahmen eines Forschungsverbundes mit den Instituten für Nuklearmedizin und Strahlentherapie sowie mit den Chemischen Instituten wird eine enge wissenschaftliche Zusammenarbeit mit den Institut für Radiochemie angestrebt.

Wegen der verantwortungsvollen Täfigkeitsbereiche und der großen allgemeinen Bedeutung der Einrichtungen ist zunächst eine Parallelbesetzung des Lehrstuhls bis zum Beginn des Wintersemesters 1997/98 vorgesehen.

Einstellungsvoraussetzungen sind ein abgeschlossenes Hochschulstudium. Promotion und Habilitation oder ein äquivalente wissenschaftliche Qualifikation sowie ausgeprägte pädagogische Eignung.

Die Technische Universität München strebt eine Erhöhung des Anteils von Frauen in Forschung und Lehre an und fordert deshalb qualifizierte Wissenschaftierinnen auf sich zu bewerben.

Schwerbehinderte Bewerber werden bel gleicher Eignung bevorzugt.

Bewerbungen sind bis zum 28.6.1996 zu richten an den

Dekan der Fakultät für Chemie, Biologie und Geowissenschaften der TU München, Lichtenbergstraße 4, D-65747 Garching.

### Max Planck Institute of Psychiatry

### Clinical Institute Group of Molecular Neurobiologie, Prof. D. W. Zieglgänsberger, Munich

Applicants are invited for a **POST-DOCTORAL POSITION** to investigate interneuronal communication mechanisms in the CNS mediated by excitatory aminoacid transmitters, peptides, and steroids. Research experience in electrophysiology and molecular biology of neuronal systems *in vitro* is required. Most advanced technologies for the analysis of interneuronal communication pioneered by this group (IRvideomicroscopy, laser-stimulation) will be available in addition to up-todate molecular techniques.

Applications should be addressed to:

Personnel Management, Max Planck Institute of Psychiatry, Clinical Institute, Kraepelinstr. 2-10, D-80804 Munich, Germany.

### UNIVERSITY OF GLASGOW

Institute of Biomedical and Life Sciences

### Division of Virology LECTURER IN VIROLOGY

Candidates should be molecular virologists working in the area of virus-host interactions, preferably with research interests in virus proteins that affect nuclear export of RNA and be capable of attracting research funding, supervision of graduate students, and undertaking teaching duties. The Division of Virology is internationally recognised as a centre for virus research and its facilities are excellent, as are opportunities for collaboration both within IBLS and with clinical departments.

Salary will be within the Lecturer A/B Scale £15,154- $\pounds$ 26,430 per annum. This Lectureship is for a five year period and is available as soon as mutually convenient.

Further particulars may be requested on a postcard, quoting clearly the **reference number and post title**, your **name**, address and post code, from Personnel Services, Recruitment Section, University of Glasgow, G12 8QQ where applications (eight copies of curriculum vitae and eight copies of covering letter), together with the names and addresses of three referees, should be submitted not later than Friday, 21st June 1996. Further particulars are also available on the World Wide Web: http://www.ibls.gla.ac.uk/

Informal enquiries may be made to **Professor J.B.** Clements, FRSE (Division of Virology, Church Street, Glasgow, G11 5JR; tel: 0141-330 4027; fax: 0141-337 2236; e-mail: b.clements@vir.gla.ac.uk). Ref: 9196/SC An equal opportunities employer.

The University of Glasgow is an exempt charity dedicated to excellence in teaching and research.

### Geneva Biomedical Research Institute Glaxo Wellcome Research and Development S.A.

The Geneva Biomedical Research Institute (formerly the Glaxo Institute for Molecular Biology) is a state-of-the-art centre of scientific excellence. Its research is directed towards the discovery of novel molecular mechanisms that can be used as drug targets to treat serious diseases. In particular, one major research effort is focused on understanding mechanisms underlying neuronal apoptosis. Within this area we have an outstanding opportunity for a

### Postdoctoral Fellow (Molecular/Cellular Biology)

who will have a strong background in oxidative metabolism and is expected to make an important contribution to an evolving research strategy aimed at identifying key molecular lesions contributing to neuronal death in disease. Expertise in the biology of mitochondria would be an asset. The successful candidate will have a key role in a team studying the mechanisms of ageing and apoptosis that can form the basis of new therapies for Alzheimer's disease. Informal enquiries can be directed to Dr. J.C. Martinou (jcm26619@ggr.co.uk; phone +41 22 706 9822).

The Geneva Biomedical Research Institute is part of the Glaxo Wellcome group, one of the world's most successful healthcare companies which has an outstanding reputation for the quality of both its research and products.

If you are interested in these positions, please send your curriculum vitae with a list of publications and the names of three referees to: Mrs. Véronique Stofer, Personnel Manager, Geneva Biomedical Research Institute, Glaxo Wellcome Research and Development S.A., 14 chemin des Aulx, 1228 Plan-les-Ouates/Geneva, Switzerland.



Applications are invited for a full-time permanent academic post in the Department of Medicine and Therapeutics (Mater Misericordiae Hospital). Intending applicants should have a Ph.D., considerable academic research and teaching accomplishments and a scientific background pertinent to the current teaching and research interests of the Department of Medicine and Therapeutics. The Department's research programme focuses on molecular and cellular mechanisms of inflammation and hypersensitivity. Expertise in disciplines such as molecular biology, immunology, biochemistry, pharmacology, cell biology or other relevant cognate scientific discipline would be desirable.

The appointment will be made at the level of either Assistant Lecturer or College Lecturer.

Closing Date: Not later than 5.00 p.m. on Thursday, 27 June 1996. Prior to application, further information (including current salary scales) should be obtained from the **Personnel Office**, **University College Dublin, Belfield, Dublin 4, Ireland** (quoting above reference number). Telephone enquiries: (353 1) 706 1508 and (353 1) 706 1436. Fax: (353 1) 269 2472. Email: acadrec@irlearn.ucd.ie UCD is an equal opportunities employer Am Institut für Organische Chemie, Naturwissenschaftliche Fakultät II (Biologie, Chemie und Pharmazie), ist zum 1. 4. 1998 eine

### C 4-Professur für Organische Chemie (Nachfolge Prof. Dr. P. v. R. Schleyer)

wiederzubesetzen.

Zu den Aufgaben gehört, das Fachgebiet Organische Chemie in der Lehre in seiner gesamten Breite zu vertreten. Die Forschungsrichtung soll syntheseorientiert sein. Um eine sinnvolle Ergänzung zu bereits existierenden Forschungsschwerpunkten in der Fakultät zu gewährleisten, werden Bewerberinnen/Bewerber mit metallorganischen oder bioorganischen Forschungsschwerpunkten bevorzugt.

Einstellungsvoraussetzungen sind ein abgeschlossenes Hochschulstudium, pädagogische Eignung, Promotion und Habilitation oder der Nachweis gleichwertiger wissenschaftlicher Leistungen.

Zum Zeitpunkt der Ernennung dürfen Bewerberinnen/Bewerber das 52. Lebensjahr noch nicht vollendet haben.

Die Universität Erlangen-Nürnberg strebt eine Erhöhung des Anteils von Frauen in Forschung und Lehre an und bittet deshalb Wissenschaftlerinnen nachdrücklich um ihre Bewerbung.

Bewerbungen von Schwerbehinderten werden bei gleicher Eignung bevorzugt berücksichtigt.

Bewerbungen mit den üblichen Unterlagen (Lebenslauf, Verzeichnis der Schriften und Lehrveranstaltungen, beglaubigte Kopien von Zeugnissen und Urkunden) werden bis zum **12. 7. 1996** an den Dekan der Naturwissenschaftlichen Fakultät II (Biologie, Chemie und Pharmazie) der Universität Erlangen-Nürnberg, Universitätsstraße 40, D-91054 Erlangen, erbeten.



### POSITIONS OPEN

POSTDOCTORAL POSITION available immediately on NIDA-supported projects investigating the behavioral neurobiology of cocaine, with special emphasis on receptor systems and brain regions associated with stress and the activation of the hypothalamic-pituitaryadrenal axis. In particular, the effects of environmental stress and stress-related hormones on the acquisition and maintenance of intravenous cocaine self-administration, as well as other behavioral effects of the drug, will be investigated. State-of-the-art procedures including operbehavioral pharmacology, homogenate receptor ant binding and quantitative receptor autoradiography, and in vivo micro dialysis and neurochemistry are available. Candidates must have a Ph.D. in pharmacology, neuro-science, psychology, or a related discipline with relevant laboratory experience. Send curriculum vitae and the names of three references to: Dr. Nick E. Goeders, Department of Pharmacology and Therapeutics, LSU Medical Center, P.O. Box 33932, Shreveport, LA 71130-3932. Email: ngoede@mail-sh.lsumc.edu. LSU Medical Center is an Equal Employment Opportunity/ Affirmative Action Employer.

#### POSTDOCTORAL FELLOWSHIP MECHANISMS OF NEURONAL AND AXONAL DEGENERATION

Position available July 1, 1996 for Ph.D. or M.D. with experience in basic molecular techniques (i.e., PCR, Northern blotting, molecular cloning) and/or neurochemistry. Project involves dissecting out the cellular mechanisms leading to experimental and disease-related degeneration of neurons and axons, including the role of calcium and cellular proteases. Scientific setting is within a large group devoted to studying the pathophysiology of peripheral nerve disorders within a Department and University with a strong neuroscience community. Send curriculum vitae and letter of interest to: Jonathan Glass, M.D., Department of Neurology, Emory University School of Medicine, Woodruff Memorial Research Building, Suite 6000, Atlanta, GA 30322. Emory University is an Equal Opportunity Employer.

#### POSTDOCTORAL FELLOWSHIPS Albert Einstein College of Medicine Training Program in Mechanisms of Cardiovascular Disease

M.D. and/or Ph.D. candidates with excellent publication records are invited to apply for **POSTDOCTORAL** positions in an NIH-funded training program investigating cardiovascular function and disease. Research interests of the faculty within this highly interactive program are diverse and can be provided upon request. *Applicants must be U.S. citizens or lawful permanent residents* and should submit a curriculum vitae and names of two references to: Ms. Gerri Dundie, Administrator, Division of Cardiology, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1300 Morris Park Avenue, Bronx, NY 10461. FAX: 718-430-8989; Email: dundie@accom.yu.edu. An Equal Opportunity Employer.

**POSTDOCTORAL ASSOCIATE** position(s) available to conduct research on *in one* vaccination in chickens and the effect of prenatal multiple antigenic exposure on the ontogeny and functions of the immune system. A Ph.D. in immunology, virology, or microbiology in hand at time of appointment is required; the ideal candidate will have a D.V.M./Ph.D. An interest and a minimum of one year of experience in avian immunology is desired. These positions are annual renewable; the project is funded for three years. Salary: \$25,000 to \$35,000 per year plus benefits. Start date: July 1, 1996 or later. Please send curriculum vitae and the names of three references by April 30, 1997 to: Dr. J. M. Sharma, Department of Veterinary PathoBiology, College of Veterinary Medicine, University of Minnesota, St. Paul, MN 55108. Telephone: 612-625-5276; FAX: 612-625-5203; gemail: sharm001@maroon.tc.umn.edu. The University of Minnesota is an Equal Opportunity Educator and Employer.

**POSTDOCTORAL POSITION** is available to study the molecular and cellular biology of cytokines in relation to aging, cancer, and signal transduction. Experience in immunology and molecular techniques including analysis of gene expression, cell culture, and PCR is highly desirable. U.S. *citizenship is required*. Send curriculum vitae, statement of research experience, and three reference letters to: Dr. Robert Vestal, ACOS/R&D, VA Medical Center, 500 West Fort Street, Boise, ID 83702. FAX: 208-389-7951.

#### POSITIONS OPEN

U.S. Department of Agriculture (USDA) Agricultural Research Service (ARS) POSTDOCTORAL RESEARCH ASSOCIATE (Not to exceed two years) Nematology Laboratory, Plant Sciences Institute Beltsville Agricultural Research Center

ARS is seeking a **RESEARCH PLANT PATHOLO-GIST/ZOOLOGIST/BIOCHEMIST** to conduct research on the interactions of plant-parasitic nematodes and fungal biocontrol agents of nematodes. Determines the molecular basis for the antagonism of specific fungi, including *Verticillium lecanii*, to root-knot and cyst nematodes. Develops bioassays for evaluation of the effects of purified compounds against nematodes. Candidate must have a knowledge of nematodes and/or fungi, and a knowledge of biochemical analysis methods, including skill with chromatographic isolation and with identification of natural products. Ph.D. is required. GS-11/12 salary is commensurate with experience, beginning at \$37,094 per annum.

For further information and application procedures, contact:

Dr. David Chitwood or Dr. Susan Meyer USDA, ARS, Nematology Laboratory Building 011A, Room 165B, BARC-West Beltsville, MD 20705 Telephone: 301-504-5660 FAX: 301-504-5589 Internet: dchitwoo@asrr.arsusda.gov

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Two **POSTDOCTORAL POSITIONS** available to study the effects of various stressors on the central nervous system in nonhuman primates. Areas of study include the effects of nutrition, exercise, and psychological stress on neuronal activity, neuroendocrine function, and behavior in developing and adult monkeys. Experimental approaches include *in vivo* physiological and behavioral testing, and identification of specific neural systems affected by stress using immunocytochemistry and *in situ* hybridization techniques. Send curriculum vitae, a letter briefly stating scientific background and research goals, and names of three references to: Judy L. Cameron, Ph.D., **Oregon Regional Primate Research Center**, **505 Northwest 185th Avenue, Beaverton, OR 97006.** An Equal Opportunity Employer.

#### POSTDOCTORAL POSITION MOLECULAR/VASCULAR BIOLOGY

Position available for Ph.D. and/or M.D. to study vascular biology utilizing gene transfer technology. Arcas of active interest include development of recombinant adenovirus systems for transfer of genes into the vascular wall, and application of gene transfer systems to animal models of vascular injury (atheroselerosis, restenosis). A strong background in vascular biology is important.

Please send or fax curriculum vitae, summary of research experience, and names and telephone numbers of three references to:

Daniel Z. Fisher, M.D., Ph.D. Department of Medicine Division of Cardiovascular Medicine University of Massachusetts Medical Center 55 Lake Avenue North Worcester, MA 01655 FAX: 508-856-5207

**POSTDOCTORAL POSITION** available to study transport ATPases in bacteria. Ph.D. in microbiology or biochemistry with experience in protein purification and molecular biology required. Experience in membrane transport area will be preferred. Send curriculum vitae to: **Dr. Parjit Kaur, Department of Biology, Georgia State University, Atlanta, GA 30303. FAX: 404-651-2509.** Georgia State University, a unit of the University System of Georgia, is an Equal Opportunity/Affinantie Action Employer.

POSTDOCTORAL POSITION in San Diego, California, to examine liver-specific gene expression and/or translocation and degradation of ER proteins. (See Mol. and Cell Biol., 11:2049, 1991; JBC, 270:28892, 1995; JLR, 37:558, 1996) Ph.D. with expertise in molecular genetics and cell biology. Submit résumé and three references to: Roger Davis, Ph.D., Biology Department, San Diego State University, San Diego, CA 92182-4614. Email: rdavis@SUNSTROKE.sdsu.edu. Reference job number F96-123. Equal Employment Opportunity/Affinnative Action/Title IX Employer.

### POSITIONS OPEN

POSTDOCTORAL POSITION TBP and TAF Structure-Function Studies

An NIH-funded **POSTDOCTORAL POSITION** is available to examine the role of the TATA-Box Binding Protein TBP and its associated factors (TAFs) in transcription initiation complex formation in *Sacduromyces cerevisiae* (see J. Biol. Chem., **269**:23135; **269**:28335; *Proc. Nat. Acad. Sci. USA*. **92**:8224; *Biodeemistry*, **34**:8005). We are currently using a combination of biochemical, genetic, and biophysical methods to study the interactions of these proteins with TBP, DNA, and other transcription factors. Interested parties should send a curriculum vitae and arrange to have three letters of reference sent directly to:

Dr. Tony Weil Department of Molecular Physiology and Biophysics Vanderbilt University School of Medicine Nashville, TN 37232-0615 FAX: 615-322-7236

Email: tony.weil@mcmail.vanderbilt.edu. Vanderbilt University is an Equal Opportunity/Affirmative Action Employer.

#### POSTDOCTORAL FELLOW-IMMUNOLOGY

Recent Ph.D. required for studies of the interaction of peptides with class I MHC molecules. Emphasis on understanding the role of peptide/MHC on epitope selection and immunogenicity in both mouse (LCMV) and human (HIV) virus infections. Please send curriculum vitae, list of publications, and three letters of reference to:

#### Jeffrey Frelinger University of North Carolina at Chapel Hill Department of Microbiology and Immunology CB Number 7290, FLOB Chapel Hill, NC 27599-7290 FAX: 919-962-8103 Email: jfrelin@med.unc.edu

The University of North Carolina at Chapel Hill is an Affirmative Action/Equal Opportunity Employer. Applications from women and minorities are encouraged.

### POSTDOCTORAL POSITIONS

NIH-supported **POSTDOCTORAL POSITIONS** are available to study novel transcriptional and posttranscriptional regulatory mechanisms of endothelial nitric oxide synthase and cyclooxygenase expressions. Applicants with strong background in molecular biology and biochemistry are encouraged to apply. Please send curriculum vitae and three references to: Dr. Kenneth K. Wu, Vascular Biology Research Center, University of Texas-Houston Medical School, 6431 Fannin Street, Houston, TX 77030. FAX: 713-745-1607; Email: kkwu@heart.med.uth.tmc.edu.

NIH-funded **POSTDOCTORAL POSITION** is available to study molecular mechanisms of resistance to retinoids in leukemia cells from patients treated on national cooperative oncology group protocols. The position involves assistance with supervision of a lab technician performing more routine aspects of translational research projects. Interested Ph.D./M.D.'s with a background in molecular and cell biology should send curriculum vitae and names and addresses of three references to: Dr. Robert Gallagher, Department of Oncology, Montefore Medical Center, Albert Einstein Cancer Center, 111 East 210th Street, Bronx, NY 10467. Email: rgallagh@aecom.yu.edu.

Two POSTDOCTORAL FELLOWSHIP positions available immediately to study (1) vascular/cell/molecular biology of novel anticoagulant protein and (2) cell/ molecular biology of apoptosis in human reproductive system. Please forward curriculum vitae to: K. McCrae, M.D., Thrombosis Research Center, OMS 309, Temple University School of Medicine, Philadelphia, PA 19140. FAX: 215-707-2783; Email: kmccrae@astro. ocis.temple.edu. Temple University is an Equal Employment Opportunity/Affinuative Action Employer and strongly encourages applications from women and minorities.

POSTDOCTORAL POSITION is available immediately in Immunology to study cellular immune responses to HIV infection in humans and nonhuman primates. Studies will address issues in cellular immunology, immunogenetics, and molecular virology. Send curriculum vitae and three letters of reference to: Dr. Norman L. Letvin, Harvard Medical School, Beth Israel Hospital, RE-113, 330 Brookline Avenue, Boston, MA 02215.

### POSITIONS OPEN

#### POSTDOCTORAL POSITIONS University of Vermont College of Medicine

The Department of Medicine has three positions available for Ph.D., M.D., or M.D./Ph.D. in a unique environment with opportunities to conduct parallel studies in animals and humans. Areas include: 1) Application of molecular approaches to address questions in human ag-ing, protein, and energy metabolism. Proficiency in pro-tein chemistry, RNA/DNA techniques, PCR and electro-phoresis required. Interest in mtDNA and GST preferred. 2) Application of stable isotope tracers to probe protein/ amino acid metabolism in humans. Primary interest in sulfur amino acids/glutathione preferred. Mass spec-trometry or clinical research experience helpful. 3) Application of behavioral, stereotactic surgical and especially molecular biological techniques for the study of food intake and weight control in rats. Also the potential to work in molecular biological studies in humans to examine the effect of diet on colon function.

Please send curriculum vitae with names and complete addresses of three references to: Naomi K. Fukagaw M.D., Ph.D. (positions 1 and 2), Richard Galbraith,
 M.D., Ph.D. (position 3), University of Vermont, Department of Medicine, Given C 207, Burlington, VT 05405. Telephone: 802-656-4403; FAX: 802-656-25636 (N. Fukagawa); Telephone: 802-656-2777;
 FAX: 802-656-5562 (R. Galbraith). The University of Vermont is an Affirmative Action/Equal Opportunity Employer.

### POSTDOCTORAL POSITION

**POSTDOCTORAL POSITION** available immediately for a Ph.D. with graduate experience in molecular biology, protein biochemistry, and/or signal transduction to join an ongoing effort to examine signaling mechanisms in epithelial tubule formation in the kidney. Please send curriculum vitae, copies of relevant publications, and references to:

Lloyd Cantley, M.D. Renal Division, Beth Israel Hospital 330 Brookline Avenue Boston, MA 02215 FAX: 617-667-5276 Telephone: 617-667-2147 Email: lcantley@bih.harvard.edu Affirmative Action/Equal Opportunity Employer.

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### POSTDOCTORAL POSITIONS MOLECULAR ENDOCRINOLOGY

Two POSTDOCTORAL POSITIONS are available for highly motivated, independent individuals interested in applying modern techniques in molecular, biochemical, and cellular biology to explore the actions of placental lactogens and/or growth hormone on ovarian and mam-mary gland function. Applicants should have a Ph.D. and relevant technical experience. Please send a curriculum vitae, summary of past research accomplishments, and four letters of reference to: Dr. Frank Talamantes, Sins-heimer Laboratories, University of California, Santa Cruz, CA 95064. The University of California at Santa Cruz is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION in Drosophila neurogenetics available to study molecular and cell biological aspects of relationship between cell death and differenti-ation during eye and brain development (*Cell*, 72:379-395). Send letter detailing past research, why this position is of interest, curriculum vitae, and three letters of reference to: Dr. N. Bonini, Department of Biology, University of Pennsylvania, 306 Leidy, Philadelphia, PA 19104-6018.

### MEETING

The Cellular and Molecular Biology Second World Congress will take place September 1 through 7, 1996, in Ottawa, Canada. Over 1,000 scientists concentrated in life sciences will focus on the growing linkages and build upon the existing scientific foundations to correlate apparently different structures with common molecular biochemical features. In addition to the scientific and industry-related program, a major exhibition of the latest biotechnical equipment, products, and services has been add-ed to this year's Congress. For more information contact: Second World Congress Scretariat, Suite 353, 2660 Southvale Crescent, Ottawa, Ontario K1B 4W5 Can-ada. Telephone: 613-247-1344; FAX: 613-247-2187; Email: mhamelin@ottawa.net.

### POSITIONS OPEN



MARKETPLACE

Continued from page 1229



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