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Yeast Genetics & Human Disease

November 14-17, 1996
Mt. Washington Conference Center
Baltimore, Maryland

The timing of this meeting coincides with new opportunities afforded by great progress in exploring the yeast and human genomes; the meeting will take place approximately 6 months after the anticipated public release of the complete sequence of the *S. cerevisiae* genome and completion of the 400,000 human EST target set by the Merck Gene Index Project. The goals of the meeting are to emphasize the great value and potential of combining studies in yeast and mammalian systems to further understanding of genetics and basic cellular processes and to enhance interactions between investigators working with these two systems.

To foster a highly interactive, scientific retreat atmosphere, registration for this conference will be available by accepted abstract and application only. All participants will speak or present a poster as part of the conference program.

**Scientific Organizing Committee Co-Chairs:**
Philip Hieter, Johns Hopkins University
David Valle, Johns Hopkins University

**Keynote Speakers**
Ira Herskowitz, University of California at San Francisco
Francis Collins, National Institutes of Health
David Botstein, Stanford University

**Cell Cycle, Checkpoints, and Cancer**
Lee Hartwell, University of Washington
Tamar Enoh, Harvard University
Mike Kastan, Johns Hopkins University
Steve Elledge, Baylor College of Medicine

**Chromosome Structure, Genome Stability, and Cancer**
Bert Vogelstein, Johns Hopkins University
Liz Blackburn, University of California at Berkeley
Tom Petes, University of North Carolina
Tom Kelly, Johns Hopkins University

**Control of Gene Expression/Signal Transduction**
Gerry Fink, Massachusetts Institute of Technology
Jasper Rine, University of California at Berkeley
Hal Dietz, Johns Hopkins University
Richard Klausner, National Institutes of Health

**Inherited and Acquired Disease**
Rod Rothstein, Columbia University
Jef Boeke, Johns Hopkins University
Bob Nussbaum, National Institutes of Health
David Cox, Stanford University

**Comparative Genomics and Technology**
Stan Fields, University of Washington
Aya Jakobovits, Abgenix, Inc.
Mark Boguski, National Center for Biotechnology Information
Pat Brown, Stanford University

**Cell Biology**
Susan Michaelis, Johns Hopkins University
Art Horwich, Yale University
Mike Welsh, University of Iowa
Steve Gould, Johns Hopkins University

For an application package please contact:
Conferences Coordinator
American Society for Microbiology
1325 Massachusetts Ave., NW
Washington, DC 20005
202.942.9254/telephone
202.942.9340/fax
meetingsinfo@asmusa.org/e-mail
www.asmscience.org/internet

**Students!**
At least thirty scholarships are available for pre- and post-doctoral students. Inquiries should be directed to the ASM Conferences Coordinator.

**Application deadline:** Friday, September 13, 1996
Attendance is limited to 200. Meals will be included to encourage informal interaction.
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For a sample of the CLASSIFIED ADVERTISEMENTS section, please refer to page 556.

CHEMISTRY POSITIONS

CHIEF, GENETIC DISEASE LABORATORY
California Department of Health Services, Genetic Disease Branch, announces an examination to fill a position for CHIEF, Genetic Disease Laboratory. This position is responsible for planning, organizing, and directing the programs and operations of the Genetic Disease Laboratory, encompassing a program of analysis, quality control, research, and consultation in laboratory and in biochemistry and clinical chemistry related to detection of genetic disorders, identification of birth defects, and the application of biochemistry and clinical chemistry, or at a closely related subject is required. Salary is $5,242 to $6,336 per month. The position will be located in Berkeley, California. Obtain an application form and information for this Civil Service Examination by contacting: Maxie Spears, Telephone: 510-540-2613, TDD: 916-657-3042. Applications for this examination must be postmarked no later than August 25, 1996, California State Government is an Equal Employment Opportunity Employer.

Palo Alto Institute of Molecular Medicine
Ray Barf institute seeks entrepreneurial biomedical scientists with RO1 or other funding. All areas of biomedical research considered, including cellular and molecular biology, pharmacology, chemistry, and biochemistry. Contact: James W. Larrick, M.D., Ph.D., PAIMM, 2462 Wyandotte Street, Mountain View, CA 94043.

POSTDOCTORAL PROTEIN CHEMISTRY position available in the Adirondack Mountains in 1996. Require postdoctoral degree with experience in electron paramagnetic resonance, mass spectrometry and liquid chromatography. The successful candidate will gain state-of-the-art experience in protein structural characterization, including purification and identification of posttranslational modifications, sequencing and amino acid analysis. Send curriculum vitae and three letters of recommendation to: Dr. John W. Grubb, Protein Chemistry Facility, c/o Personnel Manager, W. Alton Jones Cell Science Center, Lake Placid, NY 12946. FAX: 518-523-1849.

POSTDOCTORAL POSITIONS are available to study the structure-function relationship of ryanodine receptor/calcium release channel and cystic fibrosis transmembrane conductance regulator chloride channel. Previous experience in molecular cloning, electrophysiology or protein chemistry is required. Send curriculum vitae and three letters of recommendation to: Dr. Jianjie Ma, Department of Physiology and Biophysics, Case Western Reserve University, 10900 Euclid Avenue, Cleveland, Ohio 44106. Email: jxms63@po.cwru.edu.

POSTDOCTORAL POSITION Protein Purification/Chemistry
Position available to purify and study protein domains, DNA-protein interactions, and GTP binding of P element transposase protein (see Cell 62:27, 1992). Experience in HPLC, peptide synthesis and HPLC purification is essential. Send curriculum vitae and names of three references to: Dr. Donald R. Jones, Department of Molecular and Cell Biology, 401 Barker Hall, University of California, Berkeley, CA 94720-3204.

POSITIONS OPEN

ASSISTANT PROFESSOR of Wildlife Science. Tenure-track, nine-month position for a broadly trained vertebrate ecologist with experience in wildlife-habitat relationships and/or population ecology related to forest management. Ph.D. required. Must be able to teach courses in a vertebrate ecology specialty, and in wildlife-forest relationships, and be willing to assist in other undergraduate courses. A small Ph.D. teaching load will include advising graduate and undergraduate students. The successful applicant's teaching and research are expected to contribute to an increasing emphasis in interdisciplinary approaches with the other university programs. Although the College is seeking a person at the assistant professor rank, appointment may be made at the rank of associate professor or professor under unusual circumstances and commensurate with the qualifications of the individual. Send cover letter, curriculum vitae, three letters of recommendation to: Dr. David A. Manuwal, Chair of Wildlife Search Committee, College of Forest Resources, University of Washington, Box 352100, Seattle, WA 98195-2100.

Email: askleit@u.washington.edu. Deadline for applications: 1 October 1996. The University of Washington is an equal opportunity/affirmative action employer.

HARVARD UNIVERSITY

Department of Chemistry and Chemical Biology Assistant Professors in Inorganic, Organic, and Physical Chemistry
Applications are invited for Assistant Professorships in inorganic, organic, and physical chemistry. Applicants should have a Ph.D. and postdoctoral training. The successful applicant must have demonstrated potential for research and teaching at the graduate and undergraduate levels. Applicants should arrange to have three letters of recommendation sent to the Department of Chemistry, Harvard University, 12 Oxford Street, Cambridge, MA 02138-2902. Harvard University is an Affirmative Action/Equal Opportunity Employer.

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**DIRECTOR, CLINICAL RESEARCH**

Somatogen Inc., a biopharmaceutical company located in Boulder, Colorado, is engaged in the development of specialty oxygen therapies utilizing its proprietary recombinant hemoglobin technology.

A Director of Clinical Research is being added to the team, to be the primary medical and scientific resource in the development of new clinical trial protocols and programs. Reporting to the Senior Vice President of Medical Affairs, the Director will work closely with Clinical Research Associates and the Research Data Organization in accomplishing day-to-day tasks and will provide the medical perspective related to clinical trial design and logistics, clinical trial monitoring, and report writing.

Requirements include an M.D. with at least 5 years of related hands-on experience in early-stage drug development in the pharmaceutical industry. Direct experience in clinical trial preparation and management as well as medical/scientific development of new protocols and programs is essential. A thorough knowledge of Good Clinical Practices and management experience are also required. A specialization in hematology, transfusion medicine, or critical care is desirable for this clinician/scientist.

Somatogen offers competitive salaries, benefits (including a 401K savings plan), and relocation assistance. Somatogen is an Equal Opportunity Employer. Female and minority candidates are encouraged to apply. Please fax your curriculum vitae to: 415-941-1729.
The R.W. Johnson Pharmaceutical Research Institute (RWJPRI) conducts research in a number of therapeutic areas including anti-infectives, CNS, dermatology, hematology/ oncology, immunology/inflammation, and women's health for a number of the pharmaceutical business units of Johnson & Johnson worldwide. The following openings are available with RWJPRI at its campus-like facilities.

The following openings are located in Spring House, PA (suburban Philadelphia)

Sr./Principal Scientist: Cardiovascular Pharmacology
While working in a very interactive and collaborative environment, the successful candidate will establish independent research in areas such as arteriosclerosis, tissue remodeling and matrix formation, smooth muscle/endothelial cell biology and vascular functions. Qualified candidates will have a Ph.D. in Biological Science, at least one full term of postdoctoral fellowship and 3-5 years of experience in independent scientific research in an academic or pharmaceutical research organization. A strong track record of publication in high-quality, peer-reviewed professional journals is a plus (Dept. 549).

Sr. Associate Scientists/Scientists: Combinatorial Research
Requires BS or MS in organic chemistry with 6+ years of experience or a Ph.D. with 2+ years. 2+ years experience working with combinatorial chemistry or automated organic synthesis required. Familiarity with Microsoft Word, Excel and ChemDraw (Dept. 618).

Assoc. Scientist/Sr. Assoc. Scientist: Combinatorial Research
Requires a BS or MS in organic chemistry with 3-6 years of industrial synthetic experience. Some experience with solid phase chemistry or automated organic synthesis is preferred. Computer literacy required to track large amounts of both chemical and biological data (Dept. 619).

The following openings are located in Raritan, NJ (midway between NYC and Philadelphia)

Scientist/Sr. Scientist: Protein Biochemistry
Requires a Ph.D. in Chemistry or Biochemistry or related field and 3-5 years postdoctoral study. Knowledge of protein biochemistry, receptor biology, protein purification required. Knowledge of hematopoiesis and inflammation a plus. Experience in molecular biology, chromatography and assay development required (Dept. 573).

Scientist/Sr. Scientist: Inflammation Biochemistry
Requires a Ph.D. in Biochemistry, Pharmacology or a related field and 3-5 years of postdoctoral experience. Knowledge of inflammation, cytokine-mediated signal transduction and molecular biology techniques is also required along with experience in enzyme and receptor isolation, purification and assay development (Dept. 573).

Assoc. Scientist/Sr. Assoc. Scientist
Requires a BS or MS in chemistry with 2-8 years experience in synthetic organic chemistry laboratory using modern spectroscopic methods for structure determination. The successful candidate will be responsible for the synthesis of organic compounds for biological testing, and background must demonstrate a practical knowledge of modern organic reactions, spectroscopic methods and purification techniques such as chromatography (Dept. 620).

The following openings are located in La Jolla, CA (San Diego County)

Postdoctoral Fellows (Bioinformatics)
Requires a Ph.D. in molecular biology, neurobiology, physiology or a related field. Familiarity with Genbank, EMBL, SWISS-PROT, PIR, and Brookhaven Protein Databases as well as experience in sequence analysis softwares (GCCG, BLAST, etc.) is essential. C programming experience in the UNIX system is preferred. Conduct bioinformatics and computational biology with drug discovery teams. Use state-of-the-art computers and software to search for proteins with therapeutic and/or drug target potentials. Develop and implement software tools for database mining and sequence analysis.

Project Manager (Bioinformatics)
Requires MS or equivalent with 6+ years experience (or BS with 10+ years) demonstrating comprehensive knowledge in information systems development projects, with at least 2 years managing large software development projects. Project management experience in support of drug discovery and bioinformatics, and application development management of multi-disciplinary teams, also required.

We offer a competitive salary and excellent benefits, including medical/dental insurance, 401(k) plan and our LIVE FOR LIFE Wellness Program. For positions in Raritan, NJ, and Spring House, PA, please forward a copy of your curriculum vitae suitable for scanning into our database (i.e., clean/clear, no graphics and preferably unfolded) to: Dept. 573, Johnson & Johnson Recruiting, P.O. Box 16597, New Brunswick, New Jersey 08906-6597. To apply for La Jolla openings, please send resume, including salary requirement to: Human Resources Consultant, RWJPRI, 3535 General Atomics Court, Suite 100, San Diego, CA 92121. We are an equal opportunity employer and support diversity in the workplace.

THE R.W. JOHNSON
PHARMACEUTICAL RESEARCH INSTITUTE
FACULTY POSITION
PHYSIOLOGY AND BIOPHYSICS

The Department of Physiology and Biophysics at the Finch University of Health Sciences/The Chicago Medical School invites applications for a tenure-track faculty position at the ASSISTANT, ASSOCIATE, or FULL PROFESSOR level. Applicants should have a strong record of scholarship and experience using state-of-the-art approaches to studying physiological and cellular phenomena. Preference will be given to candidates with interest in immunology, molecular, cellular, or developmental level. The individual selected will be expected to maintain an independent and externally funded research program that complements the existing research environment of the faculty. Successful candidates will be expected to contribute to the graduate and medical teaching programs in the department. Rank will be commensurate with the level of experience. Applications for appointment at more senior levels will be considered for applicants with a successful research history of highly regarded publications. The quality of the applicant’s publications will be a primary consideration in the selection process at all ranks; therefore, applications are requested to submit no more than three of their most well-regarded original research publications to be used as a basis for this evaluation. They should also send a copy of their curriculum vitae, including a statement of future research interests and the names and addresses of persons who may be contacted as references, to: Robert F. Rakowski, Ph.D., Chairman, Department of Physiology and Biophysics, Finch University of Health Sciences/The Chicago Medical School, 3333 Green Bay Road, North Chicago, IL 60064. Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

UNIVERSITY OF FLORIDA

Seeks an INSTRUCTOR in the Department of Medicine, Division of Nephrology. M.D. degree. Board-certified/eligible in Nephrology with a minimum of three years of basic or clinical research training in the field of nephrology. Preference will be given to candidates who are interested in careers that will care for patients with hypertension and related nephrological problems including ESRD, acid-base disturbances, diabetic nephropathy, and other forms of renal disease. Salary and benefits commensurate with experience. Recruiting deadline August 8, 1996. Anticipated starting date August 23, 1996. Please reply with curriculum vitae to: Dr. Edward A. Ross, M.D., Associate Professor, Department of Medicine, Box 1099, University of Florida, J11.1000, Gainesville, FL 32610. An Equal Opportunity/Affirmative Action Employer.

MEDICINAL CHEMISTRY

The Department of Medicinal Chemistry, and the Drug Design and Development Institute, Medical College of Virginia/Virginia Commonwealth University (VCU): three full-time faculty positions at the ASSISTANT, ASSOCIATE, and/or FULL PROFESSOR level. The successful candidates will have a strong record of research achievement and have demonstrated a commitment to research. Submit a curriculum vitae and names of three references to: Search Committee Chair, Department of Medicinal Chemistry, Box 980540, Medical College of Virginia/Virginia Commonwealth University, Richmond, VA 23298-0540 before October 1, 1996. VCU is an Equal Opportunity/Affirmative Action Employer. Women, minorities, and persons with disabilities are encouraged to apply.

PLANT POPULATION/ EVOLUTIONARY GENETICIST

The Department of Biology at Montana State University—Bozeman invites applications for a tenure-track ASSISANT, ASSOCIATE, or FULL PROFESSOR position in genetic- es. Candidates must have a Ph.D. and a record of productive research in plant population studies with an emphasis in molecular evolutionary, ecological, or conservation genomics. Preference is given to candidates with demonstrated success in granting. Successful applicant will develop a nationally funded research program, supervise graduate students at the M.S. and Ph.D. levels, and teach an undergraduate course in both genetics and a course in molecular evolution. Applicants should submit a curriculum vitae and descriptions of their research and teaching interests and experiences and arrangement to have three letters of recommendation sent to: Dr. J. Robert Zobel, Chair, Search Committee Chair, Department of Biology, Montana State University—Bozeman, Bozeman, MT 59717. Screening of applications will begin on September 10, 1996, and continue until a suitable candidate is found. Affirmative Action/Equal Opportunity/ADA/Veterans' Preference.

Mycoprobiosis

Department of Microbiology and Immunology

University of Kentucky

The Department of Microbiology and Immunology, College of Medicine, is seeking candidates for a tenure-eligible tenure-track faculty position at the ASSISTANT PROFESSOR level, available July 1997. Applicants should have a Ph.D. or equivalent degree; postdoctoral experience; a strong record of peer reviewed publication and host-pathogen interactions, microbial genetics, or microbial physiology, and should show exceptional promise in developing or maintaining a strong research program. The successful applicant will have an innovative, externally funded research program as well as participate in graduate and medical student teaching. This is an excellent opportunity to join an established group of immunologists and interacting with eukaryotic pathogens and molecular biology and a strong predoctoral and postdoctoral training program. The Department currently has twenty tenure-track faculty with research programs in microbial pathogenesis, eukaryotic molecular biology, molecular and cellular immunology, molecular virology, and tumor biology. Excellent start-up funds, state-funded salary communi- nate with experiences, and research opportunities will be provided. Applications should include curriculum vitae, representative reprints, a statement regarding research interests and future plans, as well as three letters of recom- mendation. Materials should be addressed to: Prof. H. R. B. Glabert, Chair, Faculty Search Committee, Department of Microbiology and Immunology, MS 5415 Medical Center, University of Kentucky, Lexington, KY 40536-0084. Telephone: 502-822-5320. Fax: 502-822-7438. E-mail: hines@uky.edu, or H. R. B. Glabert, Chair, Medical Center Hospital, University of Kentucky is an Equal Opportunity/Affirmative Action Employer and has an affirmative duty to reasonably accommodate otherwise qualified individuals with a disability.

CONSERVATION BIOLOGIST

The Department of Fish and Wildlife Resources at the University of Idaho is seeking applications for an ASSISTANT PROFESSOR position in wildlife management, conservation, and applied ecology. Candidates should have dealt with questions of population genetics, biodiversity, and/or small-population biology. They should be quantitatively oriented. Candidates with experience as laboratory teachers are preferred. All candidates must be capable of teaching the current courses. The selection process will commence on September 15, 1996 and will conclude when a sufficient number of qualified applicants have been identified. Send materials including letter of application, curriculum vitae, and the names of three references to: Conservation Biology Search, Department of Fish and Wildlife Resources, University of Idaho, Moscow, ID 83844-1136. Telephone: 208-885-4006; FAX: 208-885-5137. E-mail: techno@uidaho.edu. Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR of Pathology to be associated with Preuss Laboratory for Brain Tumor Research and NIH Brain Tumor Center at Duke University Medical Center, M.D. or Ph.D. and minimum of two years' postdoctoral experience in neuroanatomy, neurobiology, and/or trauma therapy. Knowledge of DNA recombinant techniques, especially geno- nic cloning, PCR amplification, expression of genes in eukaryotic and prokaryotic cells, and site-directed mutagenesis desired; particularly experience with human/mouse monoclonal antibody hybridization and preparation of svf constructs. Salary negotiable, dependent upon experience. Position available immediately. Send a curriculum vitae and three letters of recommendation to: Darel D. Bigio, M.D., Ph.D., Department of Pathology, Duke University Medical Center, Box 3156, Durham, NC 27710. FAX: 919-684-5321. An Equal Opportunity/Affirmative Action Employer.

The Surgical Services and the Center for Engineering in Medicine at the Massachusetts General Hospital in collabora- tion with the Shriners Burns Institute in Boston invite applications for a FACULTY POSITION at the instruc- tor/assistant/professor level. Candidates must have earned an M.D. and/or a Ph.D., and possess an outstanding track record in the areas of carbohydrate, lipid, and/or amino acid metabolism in acute and chronic disease. Knowledge of and ability to conduct investiga- tional methodology for studying metabolic disorders as well as experience and/or interest in defining the molecular bases for these disorders and in developing nutritional strategies to treat these conditions. Contact: Dr. Martin L. Yarmush, The Center for Engineering in Medicine, Massachusetts General Hospital, Bigelow 1404, 55 Street, Boston, MA 02114. The Massa- chusetts General Hospital is an Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE PROFESSOR. Conduct and supervise research on neuroimmunological aspects of multiple sclerosis. Job duties will include cell culture, animal experimentation including injection of cells and emulsions, immunological techniques, including enzyme-linked immunosorbent assay, cell counts, centrifugation, and spectrophotometers. Must have M.D. or Ph.D. in immunology/neuroimmunology with two years of experience in multiple sclerosis research. Contact: John N. Whitter, M.D., 5400-96 A-M, University of Alabama, Birmingham, AL 35294-0007. University of Alabama at Birmingham is an Equal Opportunity/Affirmative Action Employer.

STAFF ASSOCIATE

The Division of Pediatric Neurology at Columbia Uni- versity is recruiting a STAFF ASSOCIATE to coordinate a multi-institutional grant investigating the incidence of carotid deficiency in newborns. The coordina- tor should have a bachelor's or higher degree and at least four years of experience in multi-institutional research design, data management, epidemiological principles, and biostatistics. Preference will be given to applicants with knowledge of research protocols for brain imaging and experience in environmental health. The Staff Associate will be responsible for grant preparation, literature review, data entry and analysis, and other activities essential to the conduct of the research. Inquiries should be directed to: Daniel C. De Vivo, M.D., Neurological Institute, 710 West 168th Street, New York, NY 10032.

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NEUROPHYSIOLOGY PRODUCT MANAGER

For an established pharmaceutical company currently seeking a product manager opportunity for a person who has proven experience using electrophysiological techniques. It involves customer support, product development, and supervision. The salary range is between $38,000 and $45,000 per year with health benefits. The applicant should send curriculum vitae, summary of research experience, and personal references to: Ted J. McDonald, Ph.D., A-M Systems, Inc., 11627-A Airport Road, Everett, WA 98204 U.S.A. Email: tmcendon@interserv.com.
AACR SPECIAL CONFERENCES IN CANCER RESEARCH

2nd Annual Meeting of the American Society for Blood and Marrow Transplantation (ASBMT)

Novel Approaches in Blood and Marrow Transplantation

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October 2-6, 1996
Hotel del Coronado, San Diego, California

Conference Chairpersons: Bruce R. Blazar, O. Michael Colvin

SCIENTIFIC PROGRAM


SCIENTIFIC SUBCOMMITTEES - Solid Tumors, Lymphoid Malignancies, Experimental Therapeutics, Gene Therapy

WORKSHOPS - Tumor Biology and Residual Disease Detection, Growth Factors and Sources of Stem Cells, Graft Rejection/gvhd/gvl, Supportive Care, Leukemias, Non-Malignant Disorders-Congenital and Acquired

Carcinogenesis from Environmental Pollution:
Assessment of Human Risk and Strategies for Prevention

Joint Conference with the International Agency for Research on Cancer

October 6-9, 1996
Hotel Gellért, Budapest, Hungary

Conference Chairpersons: Frederica Perera, Paul Kleihues


Programmed Cell Death

October 19-23, 1996
The Sagamore, on Lake George at Bolton Landing, New York

Conference Chairpersons: Stanley J. Korsmeyer, Shigekazu Nagata, Andrew Wyllie

SCIENTIFIC PROGRAM


Information and Application Forms: American Association for Cancer Research
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Philadelphia, PA 19106-3483
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POSTDOCTORAL POSITIONS
RNA Crystallography

SEVERAL POSITIONS are available to investigate structural motifs in RNA molecules, using the crystal latent approach. Applicants should have experience in crystallography and structure determination of new RNAs. Applicants must have a Ph.D. in molecular biology, biochemistry, or related fields. The starting salary range is $44,458 to $52,867. Candidates should have a Ph.D. in molecular biology, biochemistry, or related fields. The starting salary range is $44,458 to $52,867. Candidates with a Ph.D. in molecular biology, biochemistry, or related fields are encouraged to apply.

RESEARCH SPECIALIST IN MR
University of Illinois at Urbana-Champaign

A SENIOR RESEARCH SPECIALIST is needed to provide drug delivery and pharmacological research support for a project investigating the use of RNAi in targeted drug delivery. The position requires a Ph.D. in molecular biology, biochemistry, or related fields. The starting salary range is $44,458 to $52,867. Candidates should have a Ph.D. in molecular biology, biochemistry, or related fields. The starting salary range is $44,458 to $52,867. Candidates with a Ph.D. in molecular biology, biochemistry, or related fields are encouraged to apply.

APPLICATION SCIENTIST

To support our expanding line of confocal instruments, Meridian Instruments has a position open in our Applications Development department. Ph.D. or M.S. with expertise in imaging and experience in imaging and confocal microscopy is required. Please send curriculum vitae and contact information to: Dr. Peggy Wade, Meridian Instruments, Inc., 3210 Science Parkway, Oakmos, MI 48864. Fax: 517-349-5097.

PHARMACOLOGIST

SENIOR SCIENTIST to coordinate all preclinical animal experimentation for growing drug delivery company. An M.D. or Ph.D. is required. Send curriculum vitae, salary history, and references to: Pharmaceutics, Inc., Attn: CMM, 1550 East Gude Drive, Rockville, MD 20850.

SENIOR RESEARCH SPECIALIST position available to study the expression, function, regulation, and signaling of G protein coupled receptors for peptide hormones. Cell and molecular biology experience desired. Send curriculum vitae and names of three references to: Dr. Richard Benya, Section of Digestive and Liver Diseases, University of Illinois at Chicago, 840 South Wood Street, Chicago, IL 60612. The University of Illinois is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION is immediately available in Boston to study human virus/receptor interactions and viruses induced genetic effects that lead to tumor development. Experience in virology, biochemistry, and cell biology is preferred. Send curriculum vitae and names of three references to: Robert Finberg, M.D. or Joyce Fingerhut, M.D., Division of Infectious Diseases, Massachusetts General Hospital, 55 Fruit Street, Boston, MA 02115. Fax: 617-632-4257.

POSTDOCTORAL POSITION available immediately to study the role of interleukin-1 as a neurotrophic factor. Experience in virology, biochemistry, and cell biology is preferred. Send curriculum vitae and names of three references to: Debbie Beasley, Ph.D., Box 172, Department of Medicine, Tufts New England Medical Center, 750 Washington Street, Boston, MA 02111. Fax: 617-636-1355. Email: debbie.beasley@nemc.org.

POSTDOCTORAL POSITION available to investigate the transcriptional and posttranscriptional mechanisms by which gene expression is controlled. Successful candidates will be given the opportunity to pursue research in areas such as RNA processing, gene regulation, and RNA metabolism. Send curriculum vitae and names of three references to: Dr. Larry Feig, Ph.D., Department of Biochemistry, Tufts University School of Medicine, Boston, MA 02111. Email: lfeig@opal.tufts.edu.

CORONARY PHYSIOLOGY POSTDOCTORAL POSITION

If you wish to investigate the control of coronary blood flow by adrenergic and adenosine mediated mechanisms in whole animal preparations, please write to us. Include a curriculum vitae and list of references who may be contacted. Eric Feig or Keith Kroll, Department of Physiology and Biophysics, Tufts University School of Medicine, Boston, MA 02111. Email: efeig@opals.tufts.edu.

POSTDOCTORAL POSITION available to study pattern formation in Drosophila eye. Areas of research also include cell movement, tissue polarity, and degeneration. For more information, contact Dr. Kwang Choe, M.D., Department of Cell Biology, Baylor College of Medicine, 1 Baylor Plaza, Houston, TX 77030. Fax: 713-798-8005; Email: kchoi@bcm.tmc.edu. Send application including curriculum vitae and names of three references to: Dr. Larry Feig, Ph.D., Department of Biochemistry, Tufts University School of Medicine, Boston, MA 02111. Email: lfeig@opal.tufts.edu.
CHALLENGING THE BIG PROBLEMS WITH GREAT SCIENCE

Agouron Pharmaceuticals, Inc. is a recognized pioneer and leader in the field of protein structure-based drug design. We are headquartered in La Jolla, a flourishing center for scientific research located on the southern coast of California. We are currently seeking the following professionals to join our team.

COMPUTATIONAL CHEMIST/CRYSTALLOGRAPHER

We are currently seeking a PhD researcher with significant professional experience, expert knowledge of protein structure, and proven ability in software development. This position involves developing software to augment, maintain and extract information from 3D structural databases. General responsibilities include facilitating the use of structural information in a structure-based drug discovery process and developing novel strategies to prepare and analyze protein crystal structures for use with computational chemistry methods. The qualified candidate will have an excellent track record in the design and implementation of computational chemistry software. Experience in C/C++ and OpenGL programming in a Unix environment and in database management is preferred. Successful candidates must be able to interact in a multidisciplinary team. Code: EV

ANALYTICAL CHEMISTS

The selected candidates will be hands-on scientists with a BS or MS in chemistry. Several positions at a variety of levels are available for individuals with at least 2 to 8+ years of experience in the pharmaceutical industry. Experience with GMP compliance, USP test methods, GC and HPLC is required. Additionally, experience in analytical methods development, validation and extensive HPLC methods for small organic molecules is desired. Experience with chiral HPLC and GC would be beneficial. The successful candidate will be able to work in a team environment on fast track clinical trials projects. Code: DS

We offer competitive salaries and benefits in addition to an intellectually stimulating environment. Please send resume to: Human Resources, Agouron Pharmaceuticals, Inc., 10350 N. Torrey Pines Road, La Jolla, CA 92037-1020; e-mail: jobs@agouron.com. EOE.
The Linus Pauling Institute of Science and Medicine, located in Palo Alto, California, will soon be dissolved and the Linus Pauling Institute (LPI) will be established in Corvallis, Oregon, at Oregon State University. The mission of the Linus Pauling Institute at Oregon State University is to develop a research program dedicated to elucidation of the roles of micronutrients, phytotoxins, and macromolecules of food in human health.

Oregon State University invites nominations and applications for the position of Director, Linus Pauling Institute. The Director will hold an endowed chair at Oregon State University. This is a 12-month, 1.0 FTE appointment at the rank of Professor with a 9-month tenure commitment in a department appropriate to the individual’s background. Salary range will be commensurate with experience and qualifications. The Director is expected to maintain an active research program in a human health related area that complements the mission of the Linus Pauling Institute. The Director will provide leadership for the Institute and will work closely with development personnel to acquire funding for the Institute. A doctorate degree in a human health related area is required.

We are seeking an individual who has a highly recognized, established research program and a record of successful experience in obtaining funding for research in a human health related area. A record of successful interaction with groups and with other scientists is essential.

Nominations should include name and address of the nominee and a letter addressing the qualifications of the individual. Applicants should submit a letter of interest and a resume along with names, addresses, and phone numbers of four references to:

Richard A. Scanlan, Dean of Research
Oregon State University
312 Kerr Administration Building
Corvallis, OR 97331-2140
email: harriso@ecmail.orst.edu

References will not be contacted without prior approval of the applicant. Nominations are due October 10, 1996. For full consideration, apply by October 1, 1996; position shall remain open until filled. Position is available January 1, 1997. OSU is an AA/EOE employer and has a policy of being responsive to dual-career needs.
Oak Ridge Associated Universities

PRESIDENT AND CHIEF EXECUTIVE OFFICER

The Board of Directors of Oak Ridge Associated Universities (ORAU) invites nominations and applications for the position of President and Chief Executive Officer. ORAU is a not-for-profit (501 (c) 3) corporation; a multi-university consortium; and a U.S. Department of Energy (DOE) management and operating contractor located in Oak Ridge, Tenn. ORAU serves government, academia, and the private sector in science and technology. ORAU conducts programs with and for its sponsoring institutions and manages the Oak Ridge Institute for Science and Education (ORISE) for DOE. ORISE undertakes national and international programs in education, training, environmental and health sciences, and technical analyses and assessments.

Responsibilities of the President and CEO include: Directing all programs, facilities and personnel of the corporation; exercising strong leadership and direction in pursuing new initiatives and expanding in new directions; exercising overall accountability for successful cooperative and collaborative activities and relationships with and among sponsoring institutions; representing ORAU to DOE, federal agencies, industry, foundations, universities, and other organizations (including non-U.S. entities, when appropriate); and directing the strategic planning enterprises of the corporation.

The successful candidate will have an appropriate combination of the following qualifications: Doctorate in science, engineering, medicine or related field; experience as a faculty member and/or familiarity with university administration; experience in research or research planning and administration; experience with government agencies, including funding procedures and proposal preparation; extensive successful management and business experience, including personnel, fiscal, and program responsibilities; working familiarity with private foundations and other 501 (c) 3 organizations; and a proven record of strong leadership. All candidates must be a U.S. citizen and have exceptional oral/written communications and interpersonal skills.

The position is currently available. The Search Committee will accept applications until the position is filled and will begin reviewing applications September 30, 1996. Salary will be commensurate with education and experience. Starting date is negotiable. Applications should include a letter stating an interest in the position, a complete resume, and names and addresses of at least three references. Nomination letters should include the complete name, title, and address of the nominee. Applications will be confidential.

Send applications and nominations to:
Anthony K. Hyder, Chair, ORAU Search Committee
Center for Continuing Education, University of Notre Dame
P.O. Box 1008, Notre Dame, IN 46556-1008.

ORAU is an Equal Employment Opportunity/Affirmative Action Employer.

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New Approaches to Crop Protection

DuPont Central Research and Development is seeking highly motivated Scientists for these immediate openings:

Agricultural Biokinetics- Principle Investigator

You will be part of a program aimed at applying the principles of xenobiotic transport and accumulation to the design of novel crop protection chemicals.

The successful applicant will study the biological factors that control the uptake and translocation of xenobiotics in plants. The ideal person will be an analytical biochemist possessing a strong molecular background, and be capable of working and communicating effectively with a multidisciplinary team of biochemists, chemists, biologists and modelers from Central Research and Development and DuPont Agricultural Products.

Requirements for this position include a Ph.D. and at least two years of postdoctoral research experience, with demonstrated accomplishment in metabolite or xenobiotic movement on the cellular or organismal level. Experience with LC/MS, microsampling techniques, or computer modeling is highly desirable.

code:PSS-0127

Protein Crystallography- Visiting Research Scientist

We are looking for a scientist to join our protein crystallography group. You will be part of a team using structure-based inhibitor design for the discovery of new herbicides, fungicides, and insecticides. You should have a Ph.D. and experience at protein crystallization and data collection and analysis. Our facilities include the latest in computers and detectors, as well as access to synchrotron facilities.

code:PSS-0129

Photosynthesis- Visiting Research Scientist

A position is available for the study of electron transport processes in Photosystem II of oxygenic photosynthesis. This program is focused on the manganese cluster and the redox active tyrosine implicated in water oxidation, and on the reaction center chlorophylls implicated in primary and secondary electron transfer. The successful candidate will have a Ph.D. in a chemical or biological science. Experience in the area of photosynthesis and in optical and magnetic resonance spectroscopies and biochemical and microbiological techniques would be an advantage.

code:PSS-0130

We offer a highly stimulating environment and excellent company benefits. Please forward your resume indicating position of interest and code # to: DuPont Human Resources, Attn: PSS-code, Wilmington, DE 19898. OR Fax: 800-631-2206. Attn: PSS-code. We are an equal opportunity employer.

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DuPont Central Research and Development
Senior Medical Writer

The R.W. Johnson Pharmaceutical Research Institute (RWJPRI) is a first-class worldwide research and development organization within Johnson & Johnson, the world’s largest and most comprehensive provider of health care products. RWJPRI performs R&D activities for the Johnson & Johnson companies...Cilag, Ortho-McNeil Pharmaceutical, Ortho Biotech and Ortho Dermatological.

Expanding programs in several therapeutic areas have created a significant career opportunity for a Senior Medical Writer with good written and oral communication skills, and demonstrated ability to handle diverse, multiple assignments simultaneously.

To qualify, you must have a Ph.D. or equivalent in the Biological Sciences with extensive publications, or an MS degree with at least five years of pharmaceutical research experience in clinical research or regulatory affairs, including extensive preparation and review of clinical documents for regulatory submission. You will be responsible for preparing investigational drug brochures, reports summarizing clinical trial results, and other summary documents for NDAs/product license applications/international registrations.

We offer a competitive salary and comprehensive benefits, including medical/dental insurance, 401(k) plan and our LIVE FOR LIFE Wellness Program with on-site fitness center at our campus-like facility in central New Jersey. Please forward a copy of your resume, including salary requirements, suitable for scanning into our database (i.e., clean/clear, no graphics, and preferably unfolded) to: Dept. 775, Johnson & Johnson Recruiting, P.O. Box 16597, New Brunswick, NJ 08906-6597.

We are an equal opportunity employer and support diversity in the workplace.

THE R.W. JOHNSON PHARMACEUTICAL RESEARCH INSTITUTE
a Johnson & Johnson company

DISCOVER SUGEN:
A LEADER IN SIGNAL TRANSDUCTION RESEARCH

SUGEN, Inc., a growing and dynamic biopharmaceutical company, is seeking Scientists/Group Leaders to join us in the San Francisco Bay Area.

Scientist/Group Leader Screening Operations

We seek a PhD in Biological/Chemical Science to manage our screening operations, including overseeing a staff of 5-7 individuals, presenting data at project meetings, interfacing with internal groups, managing corporate alliances, maintaining and expanding compound collections, and ensuring the optimization of screening assays. The successful candidate will need 2-4 years’ experience in the pharmaceutical or biotechnology industry with a proven record in the management of a small screening group. Excellent computer and database management skills plus a strong familiarity with high-throughput screening operations are required. Dept. JM/SCI

Scientist/Group Leader Immunology

You will be an integral part of a highly motivated research program. As the successful candidate, you must possess at least 3 years of postdoctoral experience in Immunology with a strong background in Molecular Biology and/or Biochemistry. Preference will be given to those with experience in signal transduction pathways mediating immune responses. Dept. IM/SCI

We offer competitive salaries and benefits, including stock options. Please send resume, referencing appropriate Dept., to: SUGEN, Inc., Human Resources, 515 Galveston Drive, Redwood City, CA 94063. Equal Opportunity Employer.
National Institute on Alcohol Abuse and Alcoholism (NIAAA)
Bethesda, MD

Position available for a Board Certified or eligible psychiatrist or neurologist with training in brain imaging to develop an independent research program on alcoholism and antisocial behavior. The program will focus primarily on functional imaging (PET, SPECT, and MRI) and complement ongoing behavioral, molecular genetic, and neuroendocrine studies on alcoholism and on individuals at high risk of developing alcoholism. Individuals with research interests in ligand development, receptor regulation, and receptor polymorphisms should apply. The incumbent is expected to develop an independent research program on CNS receptor and metabolic regulation in humans and nonhuman primates. A two-page statement of research interests and goals should be submitted with three letters of recommendation. U.S. citizenship or permanent residency required.

Laboratory of Clinical Studies, NIAAA, c/o Ms. Kathleen Hanratty, Building 31, Room 1B58, 31 Center Drive, MSC 2088, Bethesda, MD 20892-2088.

Deadline for receipt of applications: August 31, 1996

NIH is an Equal Opportunity Employer
HARVARD SCHOOL OF PUBLIC HEALTH

The Environmental Science and Engineering (ES&E) Program in the Department of Environmental Health is seeking three Assistant/Associate Professors. The Program offers advanced degrees in environmental health sciences, environmental health management, and industrial hygiene. We especially welcome applications from women and minorities. Candidates must have postdoctoral experience related to the position.

Assistant/Associate Professor of Environmental Chemistry and Exposure Assessment

The successful candidate will teach and conduct multidisciplinary research in occupational and environmental exposure assessment. Candidates with research interests in multimedia exposures, development of exposure biomarkers, and study design are particularly encouraged to apply.

Assistant/Associate Professor of Aquatic Chemistry

The successful candidate will teach and establish research complementing the department's existing program in water and health. Applicants are expected to have an understanding of the physio-chemical interactions of toxic metals and other pollutants in water, and the ability to apply this understanding to ecosystem health. Teaching responsibilities include a course in aquatic chemistry as it relates to environmental health.

Assistant/Associate Professor of Environmental Health Management

The successful candidate must have research experience in multimedia exposure and risk modeling, as well as a strong background in physics, chemistry, and statistics with applications to environmental exposure, health and risk research. Teaching and research interests will include international environmental health issues.

Applicants should specify the position for which they are applying, and send a resume and the names of three references to:

Joseph J. Harrington, Ph.D., Chair, Search Committee
Environmental Science and Engineering Program
Harvard School of Public Health
665 Huntington Avenue
Boston, MA 02115
email: harringt@husc3.harvard.edu

University of Illinois at Urbana-Champaign
Faculty Position (Open Rank)
Department of Biochemistry

The Department of Biochemistry, within the School of Chemical Sciences at the University of Illinois at Urbana-Champaign, is seeking applicants for a faculty position which will carry a full-time, tenure-track appointment. The position is open to rank and will commence on August 21, 1997.

Outstanding candidates whose expertise is in the use of NMR spectroscopy to study the structures and properties of proteins, nucleic acids, and/or carbohydrates will receive full consideration. Examples of research areas of interest are structural and dynamic properties of membrane proteins, protein-protein interactions such as those involved in signal transduction, time-resolved dynamics of enzymes, and both protein-DNA and protein-carbohydrate interactions.

The School of Chemical Sciences, through partial support from the Keck Foundation, has created a Center for Complex Structures with multiple NMR instruments, including wide-bore magnets, operating at 750 MHz, 600 MHz, 500 MHz, and 400 MHz. The successful candidate must have demonstrated excellence in research as well as the ability to participate effectively in both the undergraduate and graduate teaching programs of the Department. The rank and starting salary is dependent upon the experience and qualifications of the candidate. A doctoral degree and postdoctoral experience in NMR spectroscopy is required.

To ensure full consideration, submit a letter of application, a curriculum vitae, with a list of publications and a brief description of future research plans, and arrange to have letters of recommendation from three qualified scientists sent to the Search Committee by October 15, 1996. Applications and requests for further information should be directed to:

The Biochemistry Search Committee
Department of Biochemistry
University of Illinois at Urbana-Champaign
600 South Mathews Avenue
Urbana, IL 61801
Phone (217) 333-4889

The University of Illinois is an Affirmative Action - Equal Opportunity Employer.
RESEARCH SCIENTIST-
PEPTIDE CHEMISTRY

Amgen, the world's largest biotechnology company, currently has exciting opportunities in its Boulder facility for a Research Scientist - Peptide Chemistry.

Selected candidate will be responsible for designing, implementing, and directing specific scientific experiments which greatly contribute to attaining goals jointly establish by the Research Staff. The requirements for this position include a Ph.D. in Chemistry or related field, and 7 or more years related research experience. The successful applicant will have a strong track record of technical expertise and accomplishment in the field of peptide synthesis. Knowledge of solid phase methodology, purification, and analytical and spectroscopic techniques required. Must also have experience with non-routine peptide synthesis and knowledge and experience with automation and computer operation.

We recognize that 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 to: Amgen, Boulder, Human Resources. Dept. BPSB-5722, P.O. 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

Manager of Laboratory Health and Safety Programs

Put your laboratory research skills and experience to work in a new and important application. Stanford University seeks an individual with significant laboratory bench experience to plan, organize and provide senior specialty chemical safety and health technical support for a diverse and comprehensive research environment. Individual will be experienced in laboratory research activities and have the ability to apply research and laboratory operations knowledge in support of a broad range of research environments and activities. Focus of program support and development will be in areas of experimental procedures safety/hazard assessment and in the review, interpretation, application and management of regulatory compliance requirements in the laboratory research environment. Position reports to the Associate Vice Provost for EH&H.

Preference individual with a doctorate in Chemistry or Chemical Engineering with bench top experience; Master's degree in cognizant field with significant research laboratory and demonstrated safety management experience will be considered. Five plus years of increasingly responsible research experience with demonstrated successful program results and experience in supervision of staff also necessary.

Please send a C.V./resume and a cover letter detailing your interest and qualifications for this position to: Harvey Chock, Department of Environmental Health and Safety, Stanford University, ESF-640 Oak Road, Stanford, CA 94305-8007. AA/EOE

Combinatorial Chemistry

Structure-Based Drug Design

Agouron Pharmaceuticals, Inc. is a recognized pioneer and leader in the field of protein structure-based drug design and development. We are expanding our efforts in combinatorial chemistry to realize the full potential of rapid lead identification and optimization guided by three-dimensional protein structure. The following opportunities are currently available:

PhD Biochemist

ASSAY DEVELOPMENT AND SCREENING

HIGH-THROUGHPUT SCREENING

Selected candidate will support our combinatorial chemistry program in the area of new assay development, library screening, and high-throughput assay development. You will work with chemists and biochemists to facilitate efforts in lead identification from chemical libraries. The position requires demonstrated experience in state-of-the-art assay methods, the analysis of activity from mixtures of organic compounds, and deconvolution methods. Preference will be given to candidates with experience in high-throughput screening for drug discovery, including assay automation and data management. Qualified candidates will have a PhD and at least 2 years' post-doctoral experience developing and validating biochemical screening assays for a variety of targets. Code: SW4

PhD Organic Chemist

Selected candidate will support our combinatorial chemistry program in the design and synthesis of chemical libraries directed at protein targets based on their three-dimensional structure. You will develop new solid phase and solution phase chemistry for the generation of novel small molecule libraries. The position requires a PhD in organic chemistry with at least 2 years' post-doctoral experience with a strong emphasis on organic synthesis. A familiarity with the principles of combinatorial chemistry and solid phase synthesis is required and hands-on experience in combinatorial chemistry is preferred. Code: SR4

We offer competitive salaries and benefits in addition to an intellectually stimulating environment. Please send résumé to: Human Resources, Agouron Pharmaceuticals, Inc., 10350 N. Torrey Pines Road, La Jolla, CA 92037-1020; e-mail: jobs@agouron.com. EOE.
UTRECHT UNIVERSITY
Faculty of Pharmacy

Postdoctoral Research Fellow

Position available in the division of Analysis & Toxicology of the Utrecht Institute for Pharmaceutical Sciences per 01-09-1996.

The project involves fundamental research in analytical biotechnology, focussed on the relation between structure and molecular properties of biotech products, especially with respect to a (possible) clinical application.

Applicants must have a Ph.D. in pharmaceutical sciences, biology or (medicinal) chemistry with some years experience in a 'bio-technical' environment.

The following expertise is needed:
- bio-analysis experience
- advanced separation methods a.o. CE-MS and LC-MS, with application to peptides and proteins
- structural research of peptides and biotech proteins
- some knowledge of (pre) chemical and toxicological drugs research.

Submissions to:
Mrs. Y. Temme-de Fremery
P.O. Box 80082
3508 TB Utrecht
The Netherlands.
Vacancy no. 67605.

The Division of Cardiovascular Diseases of the Mayo Clinic and Foundation invites applications for an established investigator position at the rank of Associate or full Professor. Applicants should have an M.D. or Ph.D. degree and an established record of accomplishment in basic cardiovascular research such as in molecular or cellular biology which focuses upon endothelial, vascular smooth muscle or cardiac myocyte biology. Excellent institutional resources and long-term support are available. Written applications including CV, three letters of recommendation and a description of research interests should be sent to: John C. Burnett, Jr., M.D., Cardiovascular Chair for Research, Director, NIH Cardiovascular Research Training Program, Mayo Clinic, 200 First Street, SW, Rochester, MN 55905. Applications will be considered until September 1, 1996. Mayo Foundation is an affirmative action and equal opportunity educator and employer.

REQUEST FOR PROPOSALS
THE INTERNATIONAL SPINAL RESEARCH TRUST
The ISRT is a grant-giving charity (number 281325) with the purpose of funding research aimed at resolving the non- or partial-functioning of the injured spinal cord.

The field of spinal cord repair has developed to the stage at which we now have demonstrable regeneration of damaged nerve fibres in the adult mammalian cord. Accordingly, we feel that we have sufficient knowledge to plan a research strategy that will guarantee genuine progress. To proceed further it is recommended that ISRT funding is restricted to projects that are conducted in adult mammalian spinal cord and concentrated on 5 main research foci:

- Early Trauma and Inflammation: Prevention of the generation of obstacles to future regenerative repair, including aspects of scarring.
- Trophic Stimulation of Neurite Outgrowth: Identification of the pattern and possible temporal cascade of the different factors required to achieve long-distance regeneration.
- CNS Inhibitory Molecules: Masking of intrinsic mechanisms that are inhibitory to axonal regrowth in the CNS.

Besides these three main foci, ISRT will, in due course, support a complementary programme to address the hurdles that prevent a proper evaluation of the progress made on each project.

The Trust does not, at this time, have the resources to begin every aspect of this three-year programme. Accordingly, applications are invited for projects in the area of understanding the integration of neurotrophic factors and inhibitory molecules. We are particularly interested in applications in which consideration is given to monitoring the physiological and behavioural impact of their effects. Applicants should submit a letter of intent (c. two sides) summarizing the proposed research and background of the laboratory. An approximate budget and the curriculum vitae of the Principal Investigator(s) should be appended. Awards will average up to $375,000 over three years and, following a preliminary review, detailed proposals will be requested from a limited number of applicants. Deadline for letters of intent is 16 September 1996. Successful applicants will be approached by ISRT for detailed plans.

Address letters of intent to: The International Spinal Research Trust, Unit 7 Bramley Business Centre, Station Road, Bramley, Guildford, Surrey GU5 0AZ. Email: isrt@dial.pipex.com
NIH Postdoctoral Position—AIDS Research
HIV Env/CD4 Interactions, Fusion Co-factors, Tropism


Experimental approaches include expression of recombinant proteins (emphasis on vaccinia virus vectors); biochemical, genetic, and immunochemical analyses of fusion reactions; development of novel functional cDNA library screening methods.

Position available immediately (August 1996); later starting dates considered. Experience in molecular biology, protein chemistry, immunology, membrane biochemistry, or virology strongly preferred. Send CV and names of three references to:
Edward A. Berger, Ph.D.
Chief, Molecular Structure Section
Laboratory of Viral Diseases, NIAID
Bldg. 4, Rm. 236
National Institutes of Health
Bethesda, MD 20892
Phone: (301) 402-2481, FAX: (301) 480-1147
e-mail: edward_berger@nih.gov
NIH is an Equal Opportunity Employer.

R&D OPPORTUNITIES

Prizm Pharmaceuticals, Inc. is a biotechnology company which applies its expertise in growth factor biology to develop therapeutic products that regulate cell growth. We are located in San Diego, an expanding center for biotech research. We seek the following professionals:

MANAGER, FORMULATION

This individual will evaluate/develop vehicles and delivery systems for recombinant proteins for use in pre-clinical and clinical studies. Requires PhD in pharmaceutical chemistry or related discipline and 5+ years' experience formulating and testing protein based dosage forms, including strong hands-on experience with relevant biochemical assays and broad knowledge of protein aggregation and degradation. Working knowledge of cGMPs, lyophilization and various sterilization techniques is desirable. Code: MF

SCIENTIST, ANALYTICAL METHODS DEVELOPMENT

This individual will develop analytical methods for biochemical characterization of recombinant proteins of potential clinical relevance including methods for in-process and final product release and stability testing. Requires PhD in Biochemistry and 3+ years relevant experience in protein chemistry including strong hands-on experience in analysis of recombinant proteins by gel electrophoresis, HPLC, peptide mapping, disulfide bond assignment and secondary structure analyses. Code: AMD

SCIENTIST, CARDIOVASCULAR PHARMACOLOGY

This individual will develop/perform studies to assess efficacy of novel therapeutics in cardiovascular disease models (restenosis, inflammation, atherosclerosis); and provide expert knowledge of in vivo models used in the areas of growth factors, immunopathology, vascular and cell biology. Requires MD or PhD in Pharmacology or related discipline and 5+ years' experience including experience in animal physiology/in vivo model development. Code: CP

Prizm Pharmaceuticals, Inc. offers excellent compensation and benefits. Please submit your c.v. to: Prizm Pharmaceuticals, Inc., Human Resources, Attn: SCI, Code (see above), 11035 Roselle Street, San Diego, CA 92121; fax 619/625-0050. EOE.

PRIZM PHARMACEUTICALS
POSTDOCTORAL POSITIONS

POSTDOCTORAL POSITIONS
Washington University, St. Louis

Two POSTDOCTORAL positions are available for studies of TNF alpha encoded gene expression in Xenopus. The two positions available are for a PhD. in Molecular Biology and a PhD. in Biochemistry. The candidates will be responsible for performing experiments on transgenic frogs and will be involved in a collaborative project with published results in peer-reviewed journals and active independent funding. A fully equipped laboratory with personnel, start-up funds, and ongoing support will be provided to the successful candidate. Experience in molecular biology and experimental design is essential. The candidate is required to have a Ph.D. and/or M.D. degree and should have evidence of excellent productivity in research with publications. The positions are competitive nationally. Curriculum vitae, list of publications, selected reprints, and three letters of reference should be addressed to: Rebecca Chandler, Academic Personnel, Cedars-Sinai Medical Center, 8700 Beverly Boulevard, Los Angeles, CA 90048.

POSTDOCTORAL POSITIONS
Signal Transduction in Lymphoid Cells

Several positions available immediately to study 1) the function of 14-3-3 in Raf activation, 2) the role of the cytokinase in T cell activation, and 3) the regulation of Ras, the small GTPase in signal transduction. Experience in molecular biology, protein biochemistry, or enzymology is required. Send curriculum vitae, description of research experience, and three reference letters to: Dr. Andrew S. Shaw, Center for Immunology and Department of Pathology, Box 8118, 660 South Euclid, Washington University, St. Louis, MO 63110.

POSTDOCTORAL POSITIONS

A fully equipped laboratory with personnel, start-up funds, and ongoing support will be provided to the successful candidate. Experience in molecular biology and experimental design is essential. The candidate is required to have a Ph.D. and/or M.D. degree and should have evidence of excellent productivity in research with publications. The positions are competitive nationally. Curriculum vitae, list of publications, selected reprints, and three letters of reference should be addressed to: Rebecca Chandler, Academic Personnel, Cedars-Sinai Medical Center, 8700 Beverly Boulevard, Los Angeles, CA 90048.

CAL POLY FOUNDATION

PRINCIPAL RESEARCH ASSOCIATE, Biologica! Sciences: ($2,858 to $2,715 per month). Assist with the kit conservation program at Camp Roberts National Guard Training Site outside of Paso Robles, California. Requirements: M.S. in zoology, biology or wildlife biology or related field with research experience with B.S. or five or more years of appropriate experience. Experience preferred in carnivore surveys, especially fox; experience operating four-wheel drive vehicles; carnivore and small mammal trapping; collecting, analyzing, and reporting data; supervision of technicians; creating and maintaining computer database. Must be able to drive a federal permit in order to handle endangered species; the ability to hold a California Driver's License and an insurance record acceptable to our insurance underwriters; and the ability to drive a vehicle through rough terrain and to work under strenuous conditions. The Foundation offers generous benefits. Applications must be received by 5 p.m. on August 9, 1996. For application contact: Foundation Human Resources, CAL Polytechnic State University, San Luis Obispo, CA 93407. Telephone: 805-756-7707. Affirmative Action/Equal Employment Opportunity.

POSTDOCTORAL POSITIONS
To study biochemistry and endocrine regulation of sex pheromones in insects. Experience in insect biochemistry or endocrinology is essential. Experience with insects or lipids helpful. Two full-time positions available and one quarter-time position available. Send curriculum vitae, statement of research experience and/or goals, and references to Dr. Gregory Bloomquist, Biochemistry/330, University of Nevada, Reno, NV 89557. Telephone: 702-784-4104; Email: bloomqis@fs.scs.unr.edu. Review begins September 1, 1996. Affirmative Action/Equal Employment Opportunity.

POSTDOCTORAL POSITIONS

A POSTDOCTORAL position is immediately available to study the mechanisms of peroxisomal assembly. The import of matrix proteins, assembly of membrane proteins, and peroxisomal proliferation are areas currently under study, mostly in yeast. A background in yeast genetics or molecular biology is helpful. Send curriculum vitae and list of references to: Dr. Joel Good- man, The University of Texas Southwestern Medical Center at Dallas, TX 75235-9041. FAX: 214-648-2904; Email: goodman@w2.nuth.swmed.edu. Equal Employment Opportunity.

POSTDOCTORAL POSITION

To Study Telomere Structure and Function

Position available immediately in telomere biochemistry lab. Ongoing projects include studies of telomere-binding proteins, telomerase, telomere replication, and de novo telomere synthesis. Experience in molecular biology, protein biochemistry or enzymology is essential. Send curriculum vitae and description of research experience, and arrange to have three reference letters sent to: Dr. Carolyn Price, Department of Chemistry, 610 Hamilton Hall, University of Nebraska, Lincoln, NE 68588. FAX: 402-472-9402. http://wttch.unl.edu/pric/price.html.

POSTDOCTORAL POSITIONS

POSTDOCTORAL POSITION
Washington University, St. Louis

Two POSTDOCTORAL positions are available for studies of TNF alpha encoded gene expression in Xenopus. The two positions available are for a PhD. in Molecular Biology and a PhD. in Biochemistry. The candidates will be responsible for performing experiments on transgenic frogs and will be involved in a collaborative project with published results in peer-reviewed journals and active independent funding. A fully equipped laboratory with personnel, start-up funds, and ongoing support will be provided to the successful candidate. Experience in molecular biology and experimental design is essential. The candidate is required to have a Ph.D. and/or M.D. degree and should have evidence of excellent productivity in research with publications. The positions are competitive nationally. Curriculum vitae, list of publications, selected reprints, and three letters of reference should be addressed to: Rebecca Chandler, Academic Personnel, Cedars-Sinai Medical Center, 8700 Beverly Boulevard, Los Angeles, CA 90048.

CAL POLY FOUNDATION

PRINCIPAL RESEARCH ASSOCIATE, Biologica! Sciences: ($2,858 to $2,715 per month). Assist with the kit conservation program at Camp Roberts National Guard Training Site outside of Paso Robles, California. Requirements: M.S. in zoology, biology or wildlife biology or related field with research experience with B.S. or five or more years of appropriate experience. Experience preferred in carnivore surveys, especially fox; experience operating four-wheel drive vehicles; carnivore and small mammal trapping; collecting, analyzing, and reporting data; supervision of technicians; creating and maintaining computer database. Must be able to drive a federal permit in order to handle endangered species; the ability to hold a California Driver's License and an insurance record acceptable to our insurance underwriters; and the ability to drive a vehicle through rough terrain and to work under strenuous conditions. The Foundation offers generous benefits. Applications must be received by 5 p.m. on August 9, 1996. For application contact: Foundation Human Resources, CAL Polytechnic State University, San Luis Obispo, CA 93407. Telephone: 805-756-7707. Affirmative Action/Equal Employment Opportunity.

POSTDOCTORAL POSITIONS

A POSTDOCTORAL position is immediately available to study the mechanisms of peroxisomal assembly. The import of matrix proteins, assembly of membrane proteins, and peroxisomal proliferation are areas currently under study, mostly in yeast. A background in yeast genetics or molecular biology is helpful. Send curriculum vitae and list of references to: Dr. Joel Good- man, The University of Texas Southwestern Medical Center at Dallas, TX 75235-9041. FAX: 214-648-2904; Email: goodman@w2.nuth.swmed.edu. Equal Employment Opportunity.

POSTDOCTORAL POSITION

To Study Telomere Structure and Function

Position available immediately in telomere biochemistry lab. Ongoing projects include studies of telomere-binding proteins, telomerase, telomere replication, and de novo telomere synthesis. Experience in molecular biology, protein biochemistry or enzymology is essential. Send curriculum vitae and description of research experience, and arrange to have three reference letters sent to: Dr. Carolyn Price, Department of Chemistry, 610 Hamilton Hall, University of Nebraska, Lincoln, NE 68588. FAX: 402-472-9402. http://wttch.unl.edu/pric/price.html.

POSTDOCTORAL POSITIONS

POSTDOCTORAL POSITION
Washington University, St. Louis

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MERCK

Bioinformatics

Merck KGaA is an international pharmaceutical company with a long-term commitment to innovative research. Identification and evaluation of new therapeutic targets is one of our objectives at the main research center located in Darmstadt (near Frankfurt), Germany. In order to assure our innovative power and research quality, the Department of Medical Chemistry and Drug Design is looking for several qualified professionals supporting our activities in bioinformatics.

You will carry out your preferred part of a wide range of activities including database development and application programming or sequence analysis and prediction of function.

You will be joining a team of high-level drug design and bioinformatics scientists. An important part of your job will consist of close collaboration with our in-house experimental cellular and molecular biologists. Extensive contacts to our academic collaborators and experimental scientists will be another aspect of this position.

Your professional background should include a Ph.D. in biology or related sciences with a good knowledge of molecular biology and strong emphasis on extensive computer experience and knowledge of current software applications. A specialization and some working experience in the field of sequence analysis would be of advantage. An important aspect of this position is the need for excellent communication skills, due to the high level of interaction and cooperation with various areas of our research division. Working in a friendly and stimulating environment you are expected to develop and bring in your own ideas about new targets for small molecule drugs and for data-mining strategies and their implementation.

If you are motivated and interested in joining our team, please send your complete application to Merck KGaA, Human Resources, Pharma R+D, D-64271 Darmstadt, Germany.

UNIVERSITY OF CAMBRIDGE

Department of Zoology

Assistant Director of Research

Applications are invited for the post of Assistant Director of Research in the Department of Zoology, to take up appointment as soon as possible. We are looking for a person with potential, or established, research record in integrative or molecular biology.

Salary scale: £18,294 - £28,430

University Lecturer

Applications are invited for the post of University Lecturer in the Department of Zoology, to take up appointment as soon as possible. We are looking for a person with potential, or established excellence in research. Our priority is to appoint the best possible candidate, though we are particularly interested in strengthening research and teaching in either cell/molecular physiology, or in population and community ecology. The Department has a strong interest in many aspects of biological science, including cell biology, developmental biology, cell signalling, neurobiology, behaviour, behavioural ecology, population biology, systematics and evolutionary studies, and physiological ecology.

Salary scale: University Lecturer: £18,294 - £28,215

Further information and application form, for both of the above posts, from: The Secretary, Appointments Committee for Faculty of Biology, 19 Trumpington Street, Cambridge CB2 1QA. Tel: (01223) 334998. Fax: (01223) 332355. Informal enquiries should be addressed to Professor Malcolm Burrows, tel: (01223) 336601, email: mb135@cus.cam.ac.uk

Closing date: 6 September 1996.

The University follows an equal opportunities policy.

PROFESSORSHIP

Toyota Technological Institute (TTI), established in 1981 by a donation from the Toyota Motor Corporation, offers undergraduate and master's programs. TTI also has doctoral programs in Information Aided Technology and Future Industry-oriented Basic Science and Materials.

To strengthen education and research in the Department of Information Aided Technology, TTI is currently seeking a full professor in the field of Information Science, Artificial Intelligence, or Control Systems. Although the targeted start date to join this community is negotiable, the preferred start date would be April 1, 1997. The selected individual will organize a unit laboratory that will consist of 1 professor, 1 associate professor, 2-3 postdoctoral research associates and students. Japanese communication skills are preferred.

Support for research start-up expenses and an annual research budget will be provided, in addition to a salary and fringe benefits package.

Qualified applicants are invited to mail their curriculum vitae, a statement of research interests and a list of publications by October 15, 1996 to: Dr. M. Nagasawa (Vice-President).

TOYOTA TECHNOLOGICAL INSTITUTE

2-12 Hisakata, Tempaku, Nagoya, Japan 468
Fax Inquiries: Japan 81-52-809-1721
TTI is an Equal Opportunity Employer.
POSTDOCTORAL POSITION
Primate Lipoprotein Cholesterol Transport Laboratory
Larry Rudel, Ph.D.
A POSTDOCTORAL POSITION in the Arteriosclerosis Research Program of the Bowman Gray School of Medicine at Wake Forest University is available in the laboratory of Dr. Larry Rudel. The focus of this project is to elucidate dietary and metabolic mechanisms that control the cholesterollowering activity of specific fatty acids, with an emphasis on very long chain fatty acids. The successful candidate will perform lipoprotein and cellular lipid analyses using a combination of techniques including nuclear magnetic resonance spectroscopy, high performance liquid chromatography, and mass spectrometry. Ph.D. in biochemistry or a related field is required. Salary is commensurate with experience. Send curriculum vitae and three letters of reference to: Dr. Larry Rudel, Bowman Gray School of Medicine, Wake Forest University, Winston-Salem, NC 27157-1040. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION
University of Pennsylvania
DIFFERENTIATION AND DEVELOPMENT—Dr. Peter G. Traber studies intestinal differentiation and development. Projects focus on transcriptional regulation of intestinal genes and the role of transcription factors in development. Contact: Lawrence R, Department of Comparative Medicine, Bowman Gray School of Medicine, Wake Forest University, 901 Hanes Mall Blvd, Suite 257, 27595-7171, USA. Tel: 910-616-7171. Fax: 910-616-3966. Email: ltraber@med.wisc.edu

POSTDOCTORAL FELLOWSHIP
Applications are invited for a POSTDOCTORAL FELLOWSHIP available September 1, 1996 to study radiation-induced electron transfer along DNA. The successful candidate will be a Ph.D. in chemistry, or related subject area. The Fellows will be expected to demonstrate experimental experience in radiation chemistry, methods, and/or computational work. The research will involve the interplay of radiation chemistry with physical organic chemistry. The Fellows will have the ability to work in a multidisciplinary environment utilizing analytical (HPLC; GCMS; ESI-MS) and biochemical methodologies. Fellows will receive a highly competitive stipend (an allowance for medical benefits) and an appropriate level of funding appropriate to their qualifications and application. Applications should include: 1) brief statement of research interests, capabilities, and goals; 2) curriculum vitae; 3) addresses, FAX, and telephone numbers of three references; 4) and names and telephone numbers of three references. Applications may be sent to: Dr. Alfred F. Uciarelli, Toxicology Department (K4-16), Battelle, Pacific Northwest National Laboratories, P.O. Box 999, Richland, WA 99352.

POSTDOCTORAL TRAINING REPRODUCTIVE BIOLOGY
Opportunities in cell and developmental biology, molecular biology, reproductive endocrinology, neuroendocrinology, biophysics, and male contraceptive development are offered by the University of Washington Populations and Evolutionary Reproduction Program. The program is supported by The National Institutes of Health and the Andrew W. Mellon Foundation. For additional information see our website at http://webnet.uwashngton.edu/biology/pop/1996.html. Alfred S. Storch, Department of Physiology and Biophysics, Box 357290, University of Washington, Seattle, WA 98195. Send one copy of curriculum vitae and three letters of reference by August 15, 1996. The University of Washington provides Equal Opportunity in education without regard to race, color, creed, national origin, sex, sexual orientation, age, marital status, disability, or status as a disabled veteran or Vietnam era veterans in accordance with Washington policy and applicable federal and state statutes and regulations.

POSTDOCTORAL POSITIONS are available in two areas: i) study of aberrant transcriptional regulation of proto-oncogenic and related disease genes; and ii) study of development and related disease states (PNAS, 90:7563, 1993; JBC, 271:11792, 1996), as well as possible therapeutic strategies to suppress the growth factor-related diseases; and ii) elucidation of the mechanisms of action of recombinant glutathione S-transferases (GSTs) to confer drug-resistance to patients of animals and plants, and transcriptional regulation of endogenous GST genes by the Antioxidant Responsive Element (ARE) (PNAS, 93: 13911, 1996). Candidates must have a strong background in cellular and molecular biology. Also see http://mcardle.oncology.wisc.edu/. Please send curriculum vitae and names and addresses of three references to: Dr. William Fah, McArdle Laboratory, University of Wisconsin, Madison, WI 53706-1599.
**SYMPOSIUM**

Geriatric Medicine in the Twenty-First Century: The Basic Science Contribution to Clinical Care
Henry VIII Hotel and Conference Center
St. Louis, Missouri
September 24 to 26, 1996

The Fifteenth Annual SYMPOSIUM on Gerontology and Geriatrics will include sessions on molecular biology techniques, design of clinical research projects, cellular senescence, age-related changes in hormone action, age-related osteoporosis, Alzheimer's disease, memory decline, and testing the aging immune system. Sponsored by the Geriatric Center, St. Louis VA Medical Center and the Division of Geriatrics, St. Louis University Health Sciences Center. Information: Symposium Secretary, GRECC (11G/1B), St. Louis VA Medical Center, St. Louis, MO 63125. Telephone: 314-894-6510.

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**ANNUAL MEETING**

American Aging Association, Annual Scientific Meeting, October 4 to 8, 1996, San Francisco, California.

Conference Theme: Nutrition and Functional Aging. Students/postdoctoral can submit abstracts for award competition and prize. Scientists can submit research abstracts related to aging and nutrition. Abstract submission deadline is July 29, 1996. For registration and information contact: Arthur Reed, M.D., Ph.D., FACP, American Aging Association, 2129 Providence Avenue, Chester, PA 19013; Telephone: 610-874-7550; Fax: 610-876-7715; Email: AmerAging@aol.com.

**UNIVERSITY OF CINCINNATI**

Neuronal Plasticity in Dopaminergic Systems: From Molecular Biology to Patient Care
October 4-5, 1996

The SYMPOSIUM will highlight recent molecular, cellular, and integrative approaches to understanding the mechanisms of dopaminergic neurotransmission and how these findings may be applied to the treatment of disease. Invited speakers include: P. Greengard, M. Caron, S. Amara, G. Koob, J. Sladek, R. Albin, M. DeLong, and A. Carr. Registration fee is $150 for faculty, $50 for postdoctoral trainees, and $25 for graduate students. For details and registration forms contact: University of Cincinnati College of Medicine, Department of CME, P.O. Box 670567, Cincinnati, OH 45267-0567. FAX: 513-588-1768; Telephone: 513-588-3197; Email: jill.holapple@uc.edu.

**SYMPOSIUM**

POSTDOCTORAL POSITION
Molecular Biology of Membrane Proteins
POSTDOCTORAL POSITION(S) are available to develop and apply modern techniques of molecular biology and protein chemistry to study structural aspects (topology, folding, organization of ligand binding domains) and dynamics of cation-transporting P-type ATPases. Strong background in molecular biology and/or protein chemistry required. Send curriculum vitae and names of three references to:

Professor Jack H. Kaplan, Ph.D., F.R.S.
Department of Biochemistry and Molecular Biology, L224
Oregon Health Sciences University
3181 S.W. Sam Jackson Park Road
Portland, OR 97201-3098

POSTDOCTORAL RESEARCHER with protein chemistry experience in large-scale production/purification of recombinant proteins using bacteria. You will study proteins involved in apoptosis regulation. Plans include obtaining x-ray crystal and NMR structures of these proteins and examining their physical and kinetic properties using chromatography, centrifugation, and BIOCORE technology. Send or fax curriculum vitae and two reference letters to: Burnham Institute, 10901 North Torrey Pines Road, Attn: Dr. Reed, La Jolla, CA 92037. FAX: 619-646-3194. Equal Opportunity Employer.
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