POSITIONS OPEN

The Alzheimer’s Disease Research Center, Alzheimer’s Disease Cooperative Studies Unit, the Departments of Neurosciences and Family and Preventive Medicine at UC San Diego seek to fill a position at the ASSISTANT or ASSOCIATE PROFESSOR (In-Residence or Adjunct) series. Primary duties will be: (1) direction of core research projects and training and analysis for two major federally funded grants: an Alzheimer’s Disease Research Center and the Alzheimer’s Disease Cooperative Studies that carries out clinical drug trials, and (2) statistical collaboration with clinical and laboratory investigators. Incumbent will have teaching duties, and will be provided the time and resources for mentored methodology research. A Ph.D. in biostatistics or statistics is required, with extensive experience in the design and conduct of clinical trials. The successful candidate will have excellent communication skills and demonstrated ability in collaborative research, and must exhibit skills in the supervision of other professionals. Rank and salary will be commensurate with candidate’s experience and established university salary scale. This position is available immediately. Closing date for applications is July 31, 1994. Please send curriculum vitae and the names of three references to: Dr. Leon T. Schagen, Professor and Chair of Neurosciences, UCSD School of Medicine, 9500 Gilman Drive, La Jolla, CA 92039-0624. Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR

The Department of Pharmacology and the Division of Cardiovascular Disease of the University of Alabama at Birmingham (UAB) invites applications for a tenured-track (as Assistant Professor position in vascular biology and pharmacology. Applicants with strong training in pathophysiology, cardiac failure, atherosclerosis, coronary thrombosis, and ischemic heart disease will be given preference. The successful candidate will be expected to develop an independent research program, collaborate with a highly interactive and productive group of investigators and participate in teaching both medical and graduate students. Excellent laboratory space and generous start-up funds are available. Send curriculum vitae, letters from three references, recent reprints, and a brief statement of research plan to: Dr. David D. Ku, Department of Pharmacology, UAB HSCS, University of Alabama at Birmingham, Birmingham, AL 35294. UAB is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION IN CLINICAL PHARMACOLOGY

Applications are invited for the position of ASSISTANT PROFESSOR, tenure-track at the University of Alabama at Birmingham (UAB). Primary responsibilities will include teaching and research. Applicants must have an M.D. or M.D./Ph.D. with experience in cancer research, drug metabolism, and toxicology as evidenced by publications in high-impact journals and have demonstrated superior qualifications and experience. Send curriculum vitae, letters from three references, recent reprints, and a brief statement of research plan to: Dr. Robert B. Diasio, Professor and Chairman, Department of Pharmacology, University of Alabama at Birmingham (UAB), UAB Station, Box 600, VH 101, Birmingham, AL 35294-0019. UAB is an Equal Opportunity/Affirmative Action Employer.

ANALYTICAL CHEMIST at Washington State University

Food and Environmental Quality Laboratory in Richland, Washington. Twelve-month appointment, tenured-track, ASSISTANT PROFESSOR rank in Department of Food Science and Human Nutrition, salary commensurate with experience. The successful candidate will develop analytical methods for analyzing residues in agricultural commodities in the environment and provide government agencies and clientele groups with residue data required for registration/re-registration of pesticides through the IR-4 program; examine food science, analytical chemistry, biochemistry, environmental chemistry, or related field; effective communication ability; Preferred: Experience in analytical chemistry and GLP; communications; and participation in collaborative and supervised persons. Submit a letter of application addressing qualifications and research plans to: Dr. Charles Edwards, Analytical Chem- Search Committee, PO Box 4650, Pullman, WA 99164-6500. Telephone: 509-335-6612. Application deadline: July 15, 1994. Affirmative Action/Equal Opportunity Employer.

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PROTEIN CRYSTALLOGRAPHER

DEPARTMENT OF BIOCHEMISTRY

MICHIGAN STATE UNIVERSITY

The Department of Biochemistry seeks applications for a tenure-track position, preferably at the ASSISTANT PROFESSOR level. Candidates should have demonstrated productivity and evidence of potential for independent research in the area of protein crystallography. The successful applicant will be expected to participate in the Center for Protein Structure and Design, an area of emphasis developed with support of Research Excellence Funds provided by the State of Michigan. The Biochemistry faculty has explicitly endorsed efforts to increase the diversity of its ranks, and accordingly, candidates from groups currently underrepresented in academic science are encouraged to apply.

The Department of Biochemistry has a large faculty conducting research in most areas of contemporary biochemistry and molecular biology, providing both a stimulating scientific atmosphere and opportunities for research collaboration. The Department occupies a modern research building with well-equipped research and teaching laboratories, and has vigorous undergraduate, graduate, and postdoctoral training programs.

Applicants should submit curriculum vitae, a description of research accomplishments and future interests, and have three letters of recommendation sent on their behalf to: Dr. John E. Wilson, Chair, Department of Biochemistry, MI State University, East Lansing, MI 48824. To ensure consideration, applications should be received by September 1, 1994. Michigan State University is an Equal Opportunity/Affirmative Action Employer.

WETLAND ECOLOGIST

The Horn Point Environmental Laboratory of the University of Maryland Center for Environmental and Estuarine Studies invites applications for an ASSISTANT PROFESSOR position available January 1995. Ph.D. and research experience in physiologically ecology of marsh, SAV, or macroalgae required; the successful candidate will be expected to establish a strong research program, to contribute to interdisciplinary research on land-sea interaction, and to participate in graduate education. Send résumé and 4 references (name, address) to: Search Committee Chair, Wetland Ecologist, Horn Point Environmental Laboratory, P.O. Box 775, Cambridge, MD 21613. Deadline 15 September 1994. UMS is an Affirmative Action/Equal Opportunity Employer.

The Department of Medicine at the University of California, San Francisco, is searching for a faculty member at the level of ASSISTANT PROFESSOR of Medicine (Medicine) with demonstrated superior talent in areas of basic science relevant to breast cancer research. Candidates with research interests in breast cancer are encouraged to apply for this position. The University of California, San Francisco, as part of the Specialized Program on Breast Cancer Research. Investigators will have the opportunity to interact with leading investigators at UCSF in several areas of research including regulation of expression of genes encoding steroid hormone receptors, hormonal regulation of the cell cycle, signaling pathways in cancer cells, tumor progression and angiogenesis using transgenic models, characterization of the role of metalloproteinases and their inhibitors in invasive processes in the breast, and the role of oxygenation in cancer. Particularly attractive areas for developmental research include immunotherapeutic and hormonal approaches to treating breast cancer.

Candidates will be expected to have an M.D. or M.D./Ph.D., to have demonstrated exceptional promise in scientific creativity and productivity, and to make a commitment to study and treat breast cancer. He/she will be expected to conduct research bridging the basic sciences and clinical investigation of breast cancer diagnosis and treatment. Candidates will be expected to participate in teaching and patient care activities. Interested candidates should send curriculum vitae and a description of their research plans to: Dr. Tristram Parslow, M.D., Ph.D., Chair, Cancer Center Search Committee, University of California, San Francisco, Box 0506, Room 2135, San Francisco, CA 94143. The University of California is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.
The Skin Science Center at Unilever Research U.S. in Edgewater, NJ is the worldwide research center for the fastest growing sector of Unilever’s $40 billion global consumer products business. Do your career plans include:

- Joining a Fortune 75 company renowned for the quality of its management development?
- Working at the cutting edge of scientific research?
- Operating in a truly global organization linked to a worldwide network of over 4000 scientists?

If they do, then consider these opportunities:

**SKIN BIOLOGY**

Participate in a research program focused on investigating cell-cell communication using *in vitro* and *in vivo* systems.

**Principal Molecular Biologist**

Requires a PhD with 0-2 years of post-doctoral experience in Molecular Biology, a publication record, and experience with conventional molecular techniques, especially mammalian transfection, as well as transgenic technology. Utilization of retroviral vector technology is desirable. **Job Code MB1**

**Research Molecular Biologist**

Requires an MS or BS in biology or biochemistry with post graduate experience in molecular biology, and experience with conventional molecular biology techniques and cell cultures. An understanding of cell biology and biochemistry is desirable. **Job Code MB2**

Both of the above positions also require good written and verbal communication skills and the ability to work independently as well as in a team environment.

**SKIN BIOPHYSICS**

Participate in a program with responsibility for developing technologies to probe specific biochemical and physical changes in the skin in response to treatment.

**Principal Physical Biochemist**

Requires a PhD in physical biochemistry, biophysics or biochemical pharmacology with 0-2 years of post-doctoral or industrial experience. Demonstrated research experiences in spectroscopy and a broad knowledge of modern biochemical assays are required. Prior experience in imaging, cell or tissue culture, and epithelial tissue biochemistry would be desirable. **Job Code BP1**

If you’re ready to join us at the forefront of innovative skin research, we’re prepared to offer you a very competitive salary and outstanding comprehensive benefits. For consideration, send your resume, indicating position of interest and code on both your cover letter and envelope, to: Mr. Bruce E. Howell, Staffing & University Relations Coordinator, Unilever Research U.S., 45 River Road, Edgewater, NJ 07020. Equal Opportunity Employer.
NEW TOXICOLGY CATTLE AND OR SHEEP. REPLY TO: DR. MARK K. PETERSON, ANIMAL AND RANGE SCIENCES, NEW MEXICO STATE UNIVERSITY, LAS CRUCES, NEW MEXICO. (1) RUTGON'S 45TH EDITION, 5,000anson teaching. Research emphasis on utilization, grazed, and harvested forages. (2) NUTRITIONAL TOXICOLOGY, 6000 ASPECTS. Research emphasis on toxicology of poisonous plants and environmental xenobiotics. Both positions are tenure-track, 12-month positions. Ph.D. in Animal/Dairy Science or closely related field. Successful candidate for position includes experience with dairy cattle and or sheep. Reply to: Dr. Mark K. Peterson, Animal and Range Sciences, Box 30003/Department 31, New Mexico State University, Las Cruces, NM 88003-0003 by August 1, 1994, or until filled. Include resume, transcripts, list of publications and four letters of reference. Equal Opportunity/Affirmative Action Employer.

The Department of Pathology at Tufts University School of Medicine seeks to recruit an established investigator for a tenure-track faculty position, initially at the ASSOCIATE PROFESSOR level or above. Of particular interest would be individuals interested in molecular or cellular aspects of disease pathology; however, scientists with a wide range of research interests will be considered. Candidates should have a strong record of independence in research. The investigator will have the opportunity to interact with outstanding programs in the Department including basic research in Immunology, Genetics and Pathology. Interested individuals should send a letter of interest, current curriculum vitae, statement of background/interests and three references to: Louis W. Bottsford, Dean of Faculty and Interim Dean of Medicine, Tufts University School of Medicine, 136 Harrison Avenue, Boston, MA 02111.

AVIAN BIOLOGIST, Waterfowl. University of California, Davis. ASSISTANT PROFESSOR, tenure-track. Ph.D. in behavior, ecology, physiology, or related field required, postdoctoral experience preferred. Research, graduate education and courses on wild birds and waterfowl. Send curriculum vitae, statement of background/interests and three references to: Louis W. Bottsford, Dean of Faculty and Interim Dean of Medicine, Tufts University School of Medicine, 136 Harrison Avenue, Boston, MA 02111.

ASSISTANT PROFESSOR, YALE UNIVERSITY SCHOOL OF MEDICINE. The Section of Neurobiology invites applications for a tenure-track Assistant Professor. In particular, we are interested in candidates with a record of research in neurobiology, particularly at the cellular and molecular level. The successful candidate is expected to develop an active research program and to participate in teaching medical and graduate students. The initial appointment will be for an initial term of 12 months. Candidates must have a Ph.D. in the subject area. In particular, the successful candidate will have a strong record of research and effective teaching. The successful candidate will have an opportunity to interact with outstanding programs in the Department including basic research in Neurobiology, Yale University School of Medicine, 333 Cedar Street, New Haven, CT 06510. Yale University is an Affirmative Action/Equal Opportunity Employer. Equal Opportunity Employer/Affirmative Action.

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Pathogenesis Corporation is dedicated to the discovery, diagnosis and treatment of infectious agents associated with chronic disease. We are currently seeking the following professionals:

**Director of Regulatory Affairs**

Reporting to the V.P. of Medical and Regulatory Affairs, you will manage all regulatory activities, supervise the regulatory team and ensure timely preparation of organized and scientifically valid submissions. Requires M.S. (Ph.D. preferred) in life/physical sciences and 5 to 9 years experience in research and regulatory affairs; IND, NDA and/or PLA filing experience required (clinical focus preferred). Experience with international corporate partners and regulatory agencies and a background with small molecules strongly desired. Biologic experience useful.

**Pharmacokineticist**

Requires a Ph.D. in pharmacokinetics and/or drug metabolism with a background in analytical chemistry. Preferred candidates will have experience in the design, supervision, execution and analysis of small animal pharmacokinetic experiments, both enteral and parenteral as well as experience in the ADME evaluation of new chemical entities (NCE). Strong writing and integrative skills plus experience in the design and supervision of outside-contractor conducted large animal studies and the design of drug interaction studies essential. Skill with reverse phase HPLC techniques and Beckman System Gold desired.

**Molecular Biologists**

**Ph.D. Scientist and Postdoctoral Researcher**

Requires scientists with extensive experience in PCR technologies, sequencing, cloning, nucleic acid and subtractive hybridization techniques and differential hybridization technology. Expertise in molecular microbiology and virology strongly preferred.

PathoGenesis is located in Seattle and offers a competitive salary plus a benefits program that includes insurance and stock options. Send or fax your resume to:

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e-mail: jduggan@bart.path.com

Equal Opportunity Employer
**DNA Repair**

**Postdoctoral Positions**

The Biology and Biotechnology Research Program at the Lawrence Livermore National Laboratory has positions in an expanding multidisciplinary research team investigating mammalian DNA repair processes. Successful applicants will participate in studies involving isolation and characterization of DNA repair genes and proteins, and the development of transgenic mice altered in specific repair genes. Preference will be given to applicants familiar with DNA repair or mutagenesis testing and skilled in recombinant DNA and/or protein purification techniques. A Ph.D. in Biochemistry, Molecular Biology or Cellular Biology is desired.

For information contact: Dr. Larry Thompson (510-422-5658), Dr. Christine Weber (510-423-8155), or Fax (510-422-2282). Interested applicants are invited to send their CVs including references to Ms. Quincy McClain, Recruiting and Employment Division, Lawrence Livermore National Laboratory, PO Box 5510, L-725, Dept. AJSC5K4QM, Livermore, CA 94551. We are proud to be an Equal Opportunity Employer. M/F/D/V.

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We are the world’s foremost supplier of research and organic chemicals and a leader in diagnostic kits and reagent development.

The following opportunities exist for highly motivated individuals in our Molecular Biology Department.

- **Fermentation** - an MS/Ph.D. in Microbiology or Chemical Engineering with experience in Molecular Biology. Position will be responsible for optimization of fermentation process and scale-up for GMP production. Knowledge of downstream processing a plus.
- **Protein Purification** - BS/MS/Ph.D. in Biochemistry or related field required. Position will be responsible for development and implementation of purification schemes for native and recombinant proteins.
- **Oligonucleotide Synthesis and Purification** - BS/MS. Position responsible for production of oligonucleotides and development of novel related products. Strong knowledge of organic synthesis or biochemistry will be considered a plus.

Additional Positions are available in Quality Control and (Quality Assurance)

Candidates with relevant industrial or academic experience are encouraged to apply.

We offer a full benefits package including 401(k) plan and tuition reimbursement.

Send resume and salary history to:

Sigma Chemical Company
Staffing and Development (T.B.)
P.O. Box 14508
St. Louis, MO 63178

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**Science At Synergen**

Synergen, Inc., a research based biopharmaceutical company focused on the discovery, development and production of protein-based human pharmaceuticals for the treatment of serious human diseases, seeks the following professional:

**Research Associate - Formulations**

You will develop formulations to stabilize proteins, develop and improve analytical methods and run stability studies. Requirements include a BS/BA in biochemistry or related field, 3-5 years experience in protein or lyophilized formulations. Experience in analytical methods development such as SDS-PAGE, DSC, microcal, mass spectrometry or peptide maps is desired. Experience in operating HPLC’s is essential.

Synergen offers a competitive compensation package, generous benefits, and an open, nontraditional work place. Please send your resume to:

Human Resources Dept., Box DM, Synergen, Inc., 1885 33rd Street, Boulder, CO 80301. We are an Equal Opportunity Employer.
Wyeth-Ayerst Research, a Division of American Home Products Corporation, has an opportunity for a Toxicologist at our pharmaceutical research facility in Princeton, New Jersey. This position is responsible for pilot toxicology studies, organizing results, and preparing reports. Requirements include a Ph.D. in Toxicology or related discipline with 2-4 years industrial experience, preferably in a pharmaceutical environment. Board certification is preferred.

Wyeth-Ayerst offers an excellent compensation and benefits package in a highly professional environment. Please respond by sending your resume with salary requirements to: Human Resources Department, Wyeth-Ayerst Research, Position SCM-715, C1 8000, Princeton, NJ 08543-8000. An Equal Opportunity Employer M/F/D/V.

DIRECTOR, HEMOSTASIS RESEARCH & DEVELOPMENT

Maximize Your Expertise While Leading Hemostasis Discovery

Ortho Diagnostic Systems Inc., a Johnson & Johnson Company, is breaking new ground in the exciting discipline of hemostasis. We are committed to improving standardization of reagents, optimizing the performance of current products, developing new products as well as enhancing your technical experience. As a dynamic company on the leading edge, we’re continually looking to expand our business, as well as our management team.

Reporting to the General Manager of the Hemostasis unit, you’ll manage a team of hemostasis scientists as they develop new products and new applications for existing products. You’ll interact with marketing and technology to ensure that customer requirements are met, and oversee the planning and administration of all research efforts.

We require a Ph.D. in Biochemistry or Chemistry with an emphasis on coagulation and at least 10 years’ industrial experience in diagnostics. A solid background in hemostasis and protein chemistry, along with experience managing an R&D department are needed. The team leader we seek must have strong computer, communication, presentation and problem-solving skills.

We offer a team-oriented work environment, competitive salary and the full package of Johnson & Johnson benefits, including dental plan, tuition reimbursement and our on-site LIVE FOR LIFE Wellness Center. Please send your resume and salary requirements to: Human Resources Dept. CP, Ortho Diagnostic Systems Inc., 1001 US Hwy 202, P.O. Box 350, Raritan, NJ 08869-0606. We Are An Affirmative Action/Equal Opportunity Employer M/F/D/V.
NEW ENGLAND BIONLABS
Postdoctoral Fellowships

All candidates should have experience in enzymology and basic molecular biology techniques. Experience in site-directed mutagenesis or organic synthesis would be a plus.

Protein Engineering—Join a group involved in altering recognition specificity of restriction endonucleases. Group leader: Dr. Ira Schildkraut.

Protein Engineering—To investigate protein splicing mechanisms and in vitro selection strategies for restriction enzyme specificity mutants. Group leader: Dr. Christopher Noren.

Protein Splicing—To study mechanism of protein splicing of inteins for extreme thermostable. Group leader: Dr. Francine Perler.

Molecular Parasitology—To study nuclear hormone receptors and their role in development in C. elegans and filarial parasites. Group leader: Dr. Claude Maina.

Interested candidates should submit a resume with three references to the respective group leader.

In addition to a competitive salary, New England Biolabs offers a very generous fringe benefits package. Attendance at meetings, publication of research results and open communication with others are encouraged.

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Lynx Therapeutics, Inc., a leading developer of oligonucleotide-based drugs, has an outstanding opportunity for a Molecular Biologist in its newly-formed DNA sequencing group. The selected candidate will help develop a novel (and proprietary) DNA signature sequencing technology expected to speed up considerably the identification of disease-associated genes.

MOLECULAR BIOLOGIST

Candidates must have a PhD in molecular biology and experience in cloning techniques and conventional DNA sequencing. Industrial experience and/or familiarity with oligonucleotide chemistry is a plus.

Come and help us pave the way for the second wave of lead compounds that will follow those that have already entered, or soon will enter, clinical trials.

We offer an excellent compensation and benefits package. Please send your resume to: Lynx Therapeutics, Inc., Dept. SOS30, 3832 Bay Center Pl., Hayward, CA 94545. EOE.

LYNX THERAPEUTICS, INC.

ASSISTANT PROFESSOR
DEPARTMENT OF PHYSIOLOGY
EAST TENNESSEE STATE UNIVERSITY
JAMES H. QUILLEN COLLEGE OF MEDICINE

Tenure-track position at the Assistant Professor level is to begin July 1994, contingent upon state funds. Applicant must have a doctoral degree with extensive training in physiology and have two or more years of postdoctoral experience. Potential to develop and sustain a fundable, independent research program will be an important selection criteria. Area of expertise is open, but currently the department has six faculty members whose interests represent a wide range of cellular and systems oriented research in the physiological sciences. There are opportunities for collaboration throughout the department and college with research groups interested in cell biology of the vascular wall, neuroscience, membrane transport, electrophysiology, cardiovascular control, and cell and molecular biology. East Tennessee State University, James H. Quillen College of Medicine, provides a growing research community, ample start-up funds, modest teaching loads, and a beautiful physical location. Candidates should submit a letter, curriculum vitae, names of three references, and a brief research prospectus to Dr. William L. Joyner, Professor and Chair, Department of Physiology, James H. Quillen College of Medicine, East Tennessee State University, P.O. Box 70, 576, Johnson City, TN 37614-0576.

East Tennessee State University is an Affirmative Action/Equal Opportunity Employer.

CAMPUS VETERINARIAN

The University of California at Los Angeles is conducting a search for a Campus Veterinarian. The individual oversees an animal population of 16,000 at seven campus sites encompassing 68,000 square feet of animal space.

The Campus Veterinarian implements a comprehensive system of animal health care and quality control; provides professional support for research and teaching; monitors regulatory compliance of research projects using live animals; maintains an organizational structure to support facilities; manages animal research space; implements procedures and systems for the physical security of animal units; participates in the development, design, and renovation of animal facilities; interacts with the university community, other California research institutions, professional organizations; reviews animal use protocols as a voting member of the Chancellor's Animal Research Committee; directs 40 professional, paraprofessional and administrative employees; provides supervision of the Division of Laboratory Animal Medicine budget. The Campus Veterinarian is accountable to the Vice Chancellor of Research and the Provost of Medical Sciences.

The candidate must be a graduate of an approved school of veterinary medicine, licensed, board certified in laboratory animal medicine and possess a minimum of 5 years experience in research and administration. Salary is open to negotiation.

Applications, including curriculum vitae, should be sent by August 1 to Raymond L. Eden, Veterinarian Search Committee, Dean's Office, UCLA School of Medicine, 10833 Le Conte Avenue, Los Angeles, CA 90024-1712.

The University of California is an Affirmative Action/Equal Opportunity employer.
RESEARCH SPECIALIST IN LIFE SCIENCE FERMENTATION SPECIALIST

The Department of Microbiology and the Bio-technology Center, University of Illinois at Urbana-Champaign, seeks a qualified individual to operate its pilot-plant fermentation facility.

Applicants should hold a B.S. or M.S. degree in Microbiology, Chemical Engineering or a related area with a strong background in biochemistry. Practical experience with modern fermentation equipment is desirable as well as experience with microcomputers. Practical mechanical and electronic knowledge is also required.

The successful applicants will be responsible for the daily operation and maintenance of the fermentation system as well as assisting department faculty and other users in conducting research dependent on large-scale bacterial cultivation. In addition, the successful applicant together with faculty of the Department will be expected to offer short courses on the operation of the fermentation system to undergraduate and graduate students. Salary is negotiable. Starting date: As soon as possible.

Applicants should send resume, a summary of relevant experience, and arrange to have three letters of reference sent to: Ms. Carolyn Corn, Department of Microbiology, University of Illinois, 131 Burrill Hall, 407 S. Goodwin, Urbana, Illinois 61801 (217) 333-1736.

To receive full consideration, applications should be received by: June 22, 1994. Some interviews may be conducted before June 22, 1994; however, all applications that are received by that date will be given equal consideration.

*The University of Illinois is an Affirmative Action, Equal Opportunity Employer.*

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**FACULTY POSITION IN BACTERIAL PATHOGENESIS**

The Department of Microbiology at the University of Hawaii invites applications for a tenure-track, 9-month faculty position at the ASSISTANT PROFESSOR level, beginning January 1, 1995. The successful candidate is expected to establish an active research program in the area of microbial virulence and immunopathogenesis. Related research areas in the department include basic pathogenesis, molecular epidemiology and immunology. Teaching duties include participation in the undergraduate and graduate instructional program of the Microbiology Department and responsibility for an upper-division Cell Biology course in the interdisciplinary Biology program. Minimum qualifications: doctorate in Microbiology or closely related field, postdoctoral experience, and peer-reviewed publications. Salary will be commensurate with experience. To apply send curriculum vitae, statement of research and teaching interests, and the names of three references to: Dr. Paul Q. Patek, Chair, Department of Microbiology, University of Hawaii, 2538 The Mall, Honolulu, HI 96822; FAX: 808-956-5339. Closing date: July 15, 1994. The University of Hawaii is an affirmative action, equal opportunity employer.

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**STAFF SCIENTISTS & POSTDOCTORAL FELLOWS**

**Membrane Biochemistry, Cell Biology, Organic Chemistry and Drug Delivery**

Inex Pharmaceuticals, an innovative and dynamic biopharmaceutical company, develops systems for the intracellular delivery of large molecules including proteins, oligonucleotides and DNA vectors. The Company is establishing a world-class, multidisciplinary team of scientists - positions are available for recent Ph.D. graduates with research experience in the following areas: organic chemistry, lipid chemistry, membrane biochemistry, liposomology, drug delivery, intracellular membrane trafficking, ligand/receptor biochemistry, immunology, membrane fusion, tumor biology, control of gene expression and molecular biology.

Inex Pharmaceuticals is committed to attracting top candidates for these positions. Salary and benefit packages are most competitive. The opportunity exists for rapid career development associated with an expanding company. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. For consideration, please forward your resume to: Manager, Human Resources, Inex Pharmaceuticals Corporation, 1779 West 75th Avenue, Vancouver, B.C. CANADA V6P 6P2.
POSTDOCTORAL POSITIONS IN MOLECULAR BIOLOGY

The Department of Biological Sciences at Carnegie Mellon University in Pittsburgh, Pennsylvania, invites applications. The Department has websites in structural biology, bioinformatics, neurobiology, and computational biology. Opportunities exist to work with NIH-funded projects in these areas. Interest is encouraged in new research directions for the Department, and the successful candidate will be expected to design and implement research projects consistent with the above areas. Applicants from all areas of research are encouraged to apply.

To apply, candidates should submit a curriculum vitae and a letter of interest to:

Dr. John Smith, Chair
Department of Biological Sciences
Carnegie Mellon University
Pittsburgh, PA 15213

Carnegie Mellon University is an Equal Opportunity/Affirmative Action Employer.

DIRECTOR, OFFICE OF THERAPEUTICS RESEARCH AND REVIEW

The Food and Drug Administration is recruiting for the position of Director, Office of Therapeutics Research and Review. This position is part of the National Institutes of Health, located in Bethesda, Maryland. The position is in the Office of Therapeutics Research and Review and is responsible for directing the activities of the Office.

To apply, candidates should submit a curriculum vitae and a letter of interest to:

Dr. Jane Doe, Director
Office of Therapeutics Research and Review
FDA
Bethesda, MD 20857

Carnegie Mellon University is an Equal Opportunity/Affirmative Action Employer.

YALE UNIVERSITY SCHOOL OF MEDICINE

POSTDOCTORAL POSITIONS IN LYME DISEASE PATHOGENESIS

Postdoctoral positions are available for studies in molecular pathogenesis of Lyme disease. This positions will be working with a team of investigators in the Department of Microbiology and Immunology at Yale University School of Medicine. Successful candidates will be expected to design and implement research projects consistent with the above areas. Applicants from all areas of research are encouraged to apply.

To apply, candidates should submit a curriculum vitae and a letter of interest to:

Dr. John Smith, Chair
Department of Microbiology and Immunology
Yale University School of Medicine
New Haven, CT 06520

Carnegie Mellon University is an Equal Opportunity/Affirmative Action Employer.
Applications are invited for a position at BCL, a component of IBC in the Washington University Schools of Medicine and Engineering. BCL’s current research emphasizes multiple aspects of quantitative biomedical imaging for which a faculty and research staff of 10 full-time equivalents collaborate with biomedical and engineering scientists both intra- and extramurally. BCL’s program includes modeling for image analysis in multiple modalities, PET, optical and electron microscopy, and genome analysis. Emphasis is on the application of advanced computer technologies to problems in biomedical research. Additional information is available by anonymous ftp at wubcl.wustl.edu, e-mail to [email protected], or from the address given below. Eligible candidates should have a Ph.D., M.D., or equivalent degree; be established in and have served as a principal investigator in a research area relevant to the BCL program; be prepared to participate actively in the matching of BCL technologies and capabilities to the needs of collaborating scientists; be able to work with other senior staff in developing new programmatic directions for BCL; and have administrative experience in the direction of interdisciplinary teams of faculty and staff.

To apply, send curriculum vitae, list of publications, one copy of each of five of the most significant recent publications, a statement of research interests and plans for new work no less than three letters of reference sent to: Dr. Lewis J. Thomas, Jr., Director, Biomedical Computer Laboratory, Washington University School of Medicine, 700 S. Euclid Ave., St. Louis, MO 63110.

Washington University is an equal-opportunity employer. Women and minorities are encouraged to apply.
For information contact:
ASMBM SYMPOSIA OFFICE, ROOM 3206
9650 ROCKVILLE PIKE
BETHESDA, MARYLAND 20814-3998
TEL: 301-530-7010  FAX: 301-530-7014

Speakers will be chosen from abstracts.

ONTOGEN CORPORATION is a rapidly growing pharmaceutical company with vigorous research programs for the development of small molecule therapeutics. Our research facility is located 30 miles north of San Diego. We currently have openings for highly qualified individuals in biology:

Principal Scientist
This position requires a Ph.D in a biological science, and a postdoctoral appointment with a minimum of 5 years of industrial experience in the in vitro and in vivo evaluation of small molecules as potential human therapeutics. The qualified candidate will be responsible for leading a research team focused on screening compounds and investigating mechanisms of action.

Research Associate
This position requires a BS/MS in biology or molecular biology and a minimum of 1 year academic or industrial experience. Experience with enzymatic and cellular assays is highly desirable.

Ontogen offers competitive compensation and benefits packages including a stock option plan. Qualified candidates are invited to send resumes to:
Human Resources, Ontogen Corporation, 2325 Camino Vida Roble, Box 0527-SC, Carlsbad, CA 92009. We are an equal opportunity employer.

POSTDOCTORAL FELLOWSHIP
AQUATIC ECOTOXICOLOGIST

Oklahoma State University, Zoology Dept., Water Quality Research Lab seeks applicants for a postdoctoral position in aquatic ecotoxicology. Applicants should have expertise and interest in an ecological risk based approach to evaluation of water quality. Specifically we are evaluating the effects of oil refinery wastewater discharges, sediment leachates, and leachates from contaminated soils upon aquatic organisms. Applicants with research experience in aquatic ecotoxicology, aquatic ecology, ecological risk assessment, and/or aquatic chemistry will be considered preferentially. Some "hands-on" experience with acute and chronic toxicity test procedures with fathead minnows, daphnids, Microtox® and/or other aquatic organisms is expected. Some experience with chromatographic and atomic absorption analyses of trace contaminants is desirable.

This is a two year position with an August 1, 1994 start date. Applications accepted until the position is filled. Recent graduates that have not received their diplomas yet, may submit a letter from the graduating institution indicating all the requirements for the Ph.D. degree have been completed prior to accepting the appointment.

Submit curriculum vitae, copies of recent publications and/or a summary of research interests, and three letters of recommendation to Dr. S.L. Burks, Oklahoma State University, Zoology Department, Water Quality Research Lab, LSW 427, Stillwater, OK 74078-0459. Oklahoma State University is an Affirmative Action/Equal Opportunity Employer M/F/D/V.
**DEPARTMENT OF MOLECULAR BIOLOGY**

**Faculty Positions**

Tenure track and tenured full-time positions are available at the Assistant, Associate and full Professor level in the Department of Molecular Biology, University of Medicine & Dentistry of New Jersey-School of Osteopathic Medicine. Applications are invited from candidates utilizing modern technologies to study issues applicable to the human condition. The Department is especially interested in individuals whose research is in the area of the molecular biology of aging, cancer or virology.

- The successful candidate will be expected to develop an independent, externally funded research program and participate in the teaching of Osteopathic Medical students and Graduate students.
- Individuals seeking senior level positions must show track record in research.
- Exceptional salary, start-up and support packages are available to the successful candidates.

Interested individuals should send their curriculum vitae, a statement of research interests, and the names of three individuals willing to write a letter of reference to: Sal Caradonna, Ph.D., Department of Molecular Biology, UMDNJ-School of Osteopathic Medicine, Two Medical Center Drive, Stratford, New Jersey, 08084; UMDNJ, NJ’s University of the Health Sciences, is an Affirmative Action/Equal Opportunity Employer, M/F/D/V, and a member of the University Health System of New Jersey.

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**Crystal Formation Scientist**

Cygnum Therapeutic Systems has an opening for a Staff Scientist to initiate and develop a collaborative research effort to identify and control drug crystal formation in controlled release delivery systems. Candidates should possess a Ph.D. in a related field, experience in pharmaceutical or biophysical chemistry and at least two years of industry or postdoctoral experience. Qualified candidates should have expertise in one or more of the following disciplines: crystal kinetics and properties, thermodynamics, crystal growth, scanning calorimetry, molecular modeling, metals/ceramics, drug polymorphism, x-ray diffraction, spectroscopy. Drug delivery experience is desirable but not essential.

Cygnum Therapeutic Systems develops and manufactures advanced drug delivery systems which control the release of drugs over extended periods of time. This rapidly growing business sector improves the efficacy and cost-effectiveness of therapies. We offer competitive salaries and benefits including stock options. Qualified candidates should mail or fax their resume to:

Michael Patrick  
Manager, Human Resources  
Department S4-43  
Cygnum Therapeutic Systems  
400 Penobscot Drive  
Redwood City, CA 94063  
FAX: (415) 599-2503

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**PROGRAM OF EXCELLENCE IN MOLECULAR BIOLOGY OF THE HEART AND LUNG**

**Special Postdoctoral Positions**

The University of Cincinnati Program of Excellence in Molecular Biology of the Heart and Lung, funded by the National Heart, Lung and Blood Institute of NIH, has as its goal the application of molecular genetic approaches to study heart and lung function. Postdoctorals work closely with the sponsor in initial years but are encouraged to develop a research program separate from that of the sponsor and apply for independent funding during the final year.

The Program is open to Ph.D.s or M.D.s with training in molecular genetics who wish to apply their skills to significant problems of heart or lung or to individuals with strong backgrounds in heart and lung who wish to develop molecular genetic tools for continued study of these problems. We are particularly interested in recruiting minorities to the Program. Stipends begin at $30,000 per year with benefits. The faculty and their interests are described below.

- **Jerry B. Lingrel**  
  Na,K-ATPase gene regulation and structure-function studies including identification of the cardiac glycoside binding site using specific mutagenesis.

- **Jeffrey Whitsett**  
  Characterization of lung surfactant proteins and genes.

- **Winston Kao**  
  Collagen gene expression in the heart and lung.

- **Gary Shull**  
  Structure-function relationships and genetic regulation of ion-transport proteins of heart and lung.

- **Jeffrey Robbins**  
  Targeted modification of the cardiac contractile proteins and growth and developmental control of cardiac muscle.

- **Steven Potter**  
  Manipulating genes important in heart and lung development by insertional mutagenesis and targeted modification in ES cells.

- **Arnold Schwartz**  
  Molecular structure, function and regulation of ion channel proteins (heart, brain, vascular smooth muscle) and gene regulation; molecular identification of receptors for calcium antagonists.

- **Judith Harmony**  
  Role of apolipoproteins in heart and lung development and in resistance to disease.

- **Thomas Doetschman**  
  Role of growth and differentiation factors in the development and function of heart and lung using targeted gene modification in the mouse.

- **Anil Menon**  
  The genetics of human cardiovascular disease.

- **Stephen Liggett**  
  Molecular biology and pharmacology of adrenergic receptors.

Applicants should submit a C.V. and the names of three references to Jerry B Lingrel, Ph.D., Director, Program of Excellence in Molecular Biology, Department of Molecular Genetics, Biochemistry and Microbiology, University of Cincinnati College of Medicine, Cincinnati, Ohio 45267-0524.

*Affirmative Action/Equal Opportunity Employer*
POSITIONS OPEN

POSTDOCTORAL POSITION
Available June 1, 1994, at Dana-Farber Cancer Institute. Project involves investigating the interaction of retroviruses with cells and host organisms, especially the effect of primate immunosuppressive lentiviruses on the development and progression of murine tumors in vivo and/or immunologically essential. Send curriculum vitae and names of three references to: Dr. Ruth M. Karron, Laboratory of Viral Pathogenesis, Dana-Farber Cancer Institute, 44 Binney Street, Boston, MA 02115. Dana-Farber Cancer Institute is an equal opportunity/affirmative action employer.

POSITIONS OPEN

POSTDOCTORAL POSITIONS available immediately at the Southern Alberta Cancer Research Centre for MOLECULAR BIOLOGISTS interested in studying signal transduction mechanisms in yeast or mammalian cells, with emphasis on Ras signaling pathways. Send curriculum vitae with letters of recommendation or names and telephone numbers of references to: Dr. Danielle Van den Abbeele, Cancer Research Centre, University of Calgary Health Sciences Centre, Calgary, Alberta, CANADA T2N 4N1. FAX: 403-283-8727.

POSTDOCTORAL POSITIONS
Woods Hole Research Center seeks scientist for research/education program in rural development in Brazil. Possible affiliation with communities of forest residents and sustainable development.

Required: Ph.D. in tropical resource management, rural economics, or related, minimum 3 years of experience in Third World region, fluent Portuguese. Live in Brazilian Amazon 10 months of year.


POSITIONS OPEN

POSTDOCTORAL POSITIONS
Three positions are available for: (i) computational studies of protein-metal ion interactions; (ii) analytical studies of site-specific binding thermodynamics; (iii) structure-directed management studies of steroid. Send curriculum vitae and 3 letters of reference to: Dr. Enrico Di Cera, Department of Biochemistry and Molecular Biophysics, Washington University School of Medicine, St. Louis, MO 63110. An Equal Opportunity Employer.

POSITIONS OPEN

POSTDOCTORAL POSITION—Lyman Disease: Project to study immunological aspects of the disease and to develop an assay for disease activity. Competence in basic cell biology, biochemical, and immunoassay techniques. Experience in immunology highly desirable. Send curriculum vitae to: Eileen Hilton, M.D., Long Island Jewish Medical Center, 2777 West 76th Street, New Hyde Park, NY 11042. LJ is the Long Island Campus for the Albert Einstein College of Medicine. An Equal Opportunity Employer.

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIP
Fellowships are available, supported by an Institution- al Research Service Award (NRH), in the area of Lipid/Lipoprotein and Cardiac Inflammatory Disease. Research topics include regulation of hepatic pro-duction and secretion of lipoproteins; hormonal regula- tion of cholesterol and apolipoprotein metabolism; and diet-induced, fatty acid oxidation and catar-actogenesis; phospholipids and calcium in transmembrane signaling; and regulation of lipoprotein-lipase; mechanisms of reverse cho- lesterol transport; and regulation of lipoprotein in adipo-cytes. First-year stipend minimum is $31,000. Applicants must be U.S. citizens or permanent residents. Send curriculum vitae and names of three references to: Mur- ray Weir, Tennessine, Memphis, The Health Science Center, Memphis, TN 38163. Women and minority applicants are encouraged to apply. The University of Tennessee is an Affirmative Action/Employment Opportunity/Tide IX/Section 504/Affirmative Action Employer.
Nominations for the Helmut Horten Research Award 1995

The Helmut Horten Research Award will be presented on September 29, 1995, in Lugano.

The Helmut Horten Foundation will award a scientist, or a group of scientists working on a common project, the Helmut Horten Research Award which totals one million Swiss francs (approximately US$ 700,000.). This amount includes a sum to be given to the laureate for his discretionary use and funds to support his research in the field of basic, clinical or applied sciences. The Award will be granted every other year on a worldwide basis.

The Award honours achievements and encourages research in the fields of medicine and biology to benefit human health. Such achievements could include seminal scientific contributions to the basic biomedical sciences, epidemiology, parasitology or to disease eradication efforts.

The Award winner will be selected by a committee of internationally prominent scientists.

Readers are invited to assist in nominating candidates for the Helmut Horten Research Award.

Please note:

1. Nominees should be proposed by scientists, physicians or institutions having detailed knowledge of the candidate’s research.

2. Nominations submitted by candidates themselves cannot be considered.

3. Nominations must be made on the official form. For additional information please contact:
   The Secretary of the Selection Committee
   Helmut Horten Foundation
   CH-6995 Madonna del Piano
   Switzerland

At Genetics Institute, we provide a work environment which many have described as challenging and dynamic, while friendly and informal. We attract top people and provide them with challenging projects and the kind of supportive culture that keeps them here.

**PRE-CLINICAL RESEARCH AND DEVELOPMENT**

**Research Staff (2 positions)** This Scientist will be responsible for establishing a program to characterize novel therapeutic proteins both *in vitro* and *in vivo*. The primary focus will be to employ gene expression techniques in animal models to assess their therapeutic potential. *In vivo* gene expression experience is required, with a preference for candidates that have used Adenovirus or liposome transfection expression approaches. Requirements include a PhD in Cellular Biology or a related biologically disciplined. Candidates should have 3 or more years' experience in a biomedical research environment, be capable of independent research, and have experience in scientific presentations and publications. Job Code: 94-C576-S

A second position exists in this group for a BS/MS candidate with 5 years' related experience. Job Code: 94-C579-S

**CELLULAR IMMUNOLOGY/ CYTOKINE DISCOVERY GROUP**

Several positions are available in our cytokine discovery group. The individuals must be highly motivated and have an interest in pursuing novel cytokines using cellular immunological assays, including T cell activation, proliferation, lymphokine production and cytolytic activity. We have openings for:

**PhD Staff Scientist (1)** With 3-5 years of postdoctoral experience in T cell function studies, as well as in the establishment and maintenance of T cell clones. Experience in molecular biology a plus. Job Code: 94-C506-S

**PhD Staff Scientist (1)** With 3-5 years of postdoctoral experience in immunology and molecular biology with a strong interest in cytokines and cytokine receptor signalling. Job Code: 94-C503-S

**BS/MS Associate Scientists (2)** Openings are available for Associate Scientists who possess the skill sets mentioned above for the Staff Scientists. Job Code: 94-C507-S/94-C508-S

**BONE AND CONNECTIVE TISSUE**

**Research Staff** This individual will be in charge of in-house animal models of musculoskeletal diseases, running existing animal models, participating in analysis of results, and developing new models to test agents by Discovery Research. Knowledge of animal physiology and anatomy; animal experience; molecular biology and biochemistry experience; and excellent management/organizational skills are required. An understanding of scientific experimental design needed; surgery experience desired, but not required. Previous experience with models of cartilage repair and osteoarthritis is a plus. DVM or Ph.D preferred. Job code: 94-C508-S

**POSTDOCTORAL FELLOW**

**Microbial Fermentation** This research effort involves the development of fermentation processes that maximize the cellular and volumetric productivity of bacteria capable of producing proteins of pharmaceutical interest. An opportunity exists for a microbial physiologist who utilizes knowledge of regulation of energy-yielding pathways, protein chemistry and molecular genetics to enhance the production of recombinant proteins in *Escherichia coli*. Demonstrated proficiency in modern molecular biology is essential. Job Code: 94-A026-S

For consideration, please send resume, specifying corresponding Job Code, to: Human Resources Department, Genetics Institute, Inc., 87 CambridgePark Drive, Cambridge, MA 02140. Genetics Institute is dedicated to building strength through diversity.

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**ImmunoGen’s Science Gives You The Power To Succeed.**

**RESEARCH SCIENTIST - CELL BIOLOGY**

We are seeking an experienced scientist for our research program in apoptosis (programmed cell death) and seeking a creative individual with a strong research background. The successful candidate must have a Ph.D. in Cell Biology, Biochemistry, or a related discipline. Experience in molecular biology would be an asset. Qualified candidates should enjoy the challenge of pursuing exciting new areas of research that may lead to new therapeutics.

ImmunoGen offers excellent salaries and benefits including stock options. For immediate consideration, please send your resume to: Jack Knox, ImmunoGen, Inc., 128 Sidney Street, Cambridge, MA 02139. We are an equal opportunity employer.

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**Setting The Standard**

**Defining Excellence in Education**

**Faculty Position Biology**

**Glendale Community College**

Entry level salary range: $31,944 - $54,848

Posting # 93940644 Closes: 5:00 p.m. on 6/21/94

Ability to teach General Biology to majors and non-majors and Human Anatomy and Physiology at the 200 level. Ability to teach Microbiology at the 200 level is helpful. Demonstrated use and/or development of technology in the classroom is preferred. Ability to teach afternoons, evenings and/or weekends. Americans with Disabilities Act Essential Functions for advertised openings are available, upon request, in the District Employment Office.

The required Faculty Application form and a complete set of unofficial copies of transcripts which show degree(s) conferred MUST BE RECEIVED BY THE DISTRICT EMPLOYMENT OFFICE and glanced over by 5:00 p.m. on June 21, 1994. A detailed resume is highly recommended but WILL NOT BE considered in lieu of the required application form. Minimum academic requirements and required application forms are available from:

**MARICOPA COMMUNITY COLLEGES**

**Employment Office**

Mon-Thurs, 10:00 a.m. - 5:00 p.m.

Phone: (602) 731-8465

**AA/EOE**

Women and minorities are encouraged to apply.
STOCKHOLM UNIVERSITY

Stockholm University invites applications for the post of

Full Professor of Inorganic Chemistry

with emphasis on Solid State Chemistry

after the retirement of the present holder, Lars Kihlborg.

The position is located within the Department of Inorganic, Physical and Structural Chemistry in the Arrhenius Laboratory. It involves responsibility for the whole field of inorganic chemistry at the undergraduate level while the research and graduate study program should be devoted to solid state chemistry.

Stockholm University is the major university in the capital of Sweden. The city of Stockholm has 1.5 million inhabitants; suburbs are included, and it is a major cultural and scientific centre. It enjoys a unique location on the edge of an archipelago of over ten thousand islands.

Applications should be received by 10 June, 1994, at the Registrar, Stockholm University, S-10691 STOCKHOLM, Sweden. Please quote the reference number 611-0946/94.

The following items should be included (all in four copies): 1. Curriculum vitae, including a list of scientific publications; 2. Brief description of scientific achievements as well as teaching and administrative experience, with indications of the most important points (5-10 pages); 3. Copies of certificates and other documents to be considered; 4. All scientific publications (numbered as in the bibliography). Item 1 should reach the University by 10 June, 1994; Items 2-3 and one copy of item 4 should be received by 1 July, 1994. The three additional copies of item 4 are to be sent at a later date directly to the expert members of the search committee.

Informal inquiries can be made to the Dean of the Chemistry Faculty, professor Jozef Kowalewski, phone: +46-8-162376, fax: +46-8-152187, e-mail: JK@PHYSC.SU.SE.

AUSTRALIA PRIZE

The Australia Prize is an international award given by the Australian Government for outstanding achievement in a selected area of science and technology promoting human welfare. The Prize is $300,000 together with an inscribed medal.

The winner of the 1994 Australia Prize in the field of Sustainable Land Management is Professor Gene E. Likens. Professor Likens is the Director of the Institute of Ecosystem Studies at Millbrook, New York.

His groundbreaking work over the past 30 years promoted an holistic understanding of ecosystems and helped lay the foundations of modern ecological science.

WORLD HEALTH ORGANIZATION

INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

IARC has an opening in its laboratories in Lyons, France for a scientist with a strong internationally competitive research programme in

Molecular Carcinogenesis

The successful applicant should have a degree in veterinary medicine, as well as extensive experience in laboratory animal studies, particularly in the field of experimental tumour induction and molecular pathology. Technical expertise should include the assessment of gene expression and the identification of mutations in transformation-associated genes in histological samples. Experience with the generation and genetic typing of transgenic mice would be an asset.

The incumbent will be expected to head a research unit, focusing on molecular tumour pathology and to attract external research funds. Responsibilities will include the supervision of the Agency's experimental animal facilities and of the histopathology laboratory. He/she will have to interact with other IARC scientific Units and with outside colleagues. Previous experience in collaboration at an international level would be highly desirable.

The initial appointment will be for two years, the first being probationary, and is renewable.

The salary level is US$43,618 p.a. plus a cost of living element which is currently US$17,971 p.a. for a staff member without dependants, and US$46,901 p.a. plus a cost of living element of US$19,323 for a staff member with dependants. Salaried are tax free.

Those interested should write, enclosing a curriculum vitae, to:

Personnel Office
IARC
150, Cours Albert Thomas
69072 Lyon cedex 08, France
Fax No.: (33) 72.73.85.75

Applications from women are encouraged.
POSTDOCTORAL FELLOWSHIP IN PLANT SIGNAL TRANSDUCTION
Waksman Institute, Rutgers University

A postdoctoral research position is available immediately to study, at the biochemical, molecular and genetic levels, signal transduction during induction of disease resistance in tobacco and other dicotyledonous plants. Particular emphasis is being placed on defining the signalic acid signal transduction pathways (Plant Cell 4:359, 1992; Plant J. 2:643, 1993; Plant J. 4:593, 1993) and characterization of the signalic acid receptor (PNAS 90:9533, 1993; Science, 262:1883, 1993).

Applicants should have research experience in protein purification and molecular genetics. Salary is commensurate with experience and will include full tuition at Rutgers University, and a second year of support is available for outstanding candidates. Send curriculum vitae and names of three references to: Daniel Klessig, Waksman Institute, Rutgers University, P.O. Box 759, Piscataway, NJ 08855.

Rutgers University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIP AVAILABLE immediately to investigate the effects of alcohol on hepatocyte and fibroblast replication and liver-specific gene regulation in vivo and in vitro. Applicants should have an M.D. or Ph.D. degree, and be citizens or permanent residents of the United States. Please send curriculum vitae and the names and telephone numbers of three references to: Graham M. Mezey, Professor of Medicine, 921 Ross Research Building, The Johns Hopkins University School of Medicine, 720 Rutland Avenue, Baltimore, MD 21205.

POSTDOCTORAL FELLOWSHIP Position available for an M.D. or Ph.D. to study the pathogenesis of virus-induced demyelination as a model of multiple sclerosis. Research projects involve investigations of the immunopathogenesis of Thieler's virus infection and the role of Class I and Class II MHC-restricted immune responses. Related studies utilize the generation of transgenic mice. A good background in immunology, virology or molecular biology is desirable. Send curriculum vitae to: Moses Rodriguez, M.D., Department of Immunology, Mayo Clinic, Guggenheim 4th Floor, Rochester, MN 55905. Mayo Foundation is an Affirmative Action and Equal Opportunity Employer and Educator and Employer.

POSTDOCTORAL FELLOWSHIP Position available for an M.D. or Ph.D. to study promotion of remyelination in the central nervous system. Research projects involve investigations of the immunopathogenesis of virus-induced demyelination as a model for multiple sclerosis. Related studies utilize the characterization of monoclonal antibodies that promote remyelination in vivo and the role of glycolipid background in glial cell biology. Send curriculum vitae to: Gregory A. Grabowski, M.D., Director, Division of Human Genetics, Children's Hospital Research Foundation, 3333 Burnet Avenue, Cincinnati, OH 45229.

POSTDOCTORAL/ASSOCIATE RESEARCH SCIENTIST Position available to study molecular aspects of radioresistance and radiation-induced changes in cell cycle progression in yeast and mammalian systems. Candidate should have a Ph.D. in molecular biology or a related field. Experience with recombinant DNA and yeast preferred but not essential. Send curriculum vitae and names of three references to: Howard B. Lieberman, Center for Radiation Research, Columbia University College of Physiology and Surgery, 630 West 168 Street, New York, NY 10032. We are an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIP
Department of Pharmacology at the University of Mississippi is seeking a Postdoctoral Research Associate. Primary responsibilities include investigation of the role of glutamate in seizure mechanisms, and the development of new in vitro biological assays to detect novel antifungal agents. Qualifications include: Ph.D. in biochemistry or pharmacology, or a related discipline and experience in enzyme purification and characterization, subcellular fractionation techniques, and microbiological techniques. Interested candidates should send curriculum vitae, a statement of research interests, and three letters of reference to: Dr. Carl H. Hopp, Department of Pharmacology, University of Mississippi, University, MS 39677.

Postdoctoral fellows and faculty positions are available for research in novel antifungal and antifungal resistance mechanisms. Ph.D. in biochemistry required. Please send curriculum vitae and names of three references to: Dr. Carl H. Hopp, Department of Pharmacology, University of Mississippi, University, MS 39677.

Our laboratory is offering two Postdoctoral Research Fellowships in 1993. The first Fellowship is for study of a novel antifungal and antifungal resistance mechanisms. Ph.D. in biochemistry required. Please send curriculum vitae and names of three references to: Dr. Carl H. Hopp, Department of Pharmacology, University of Mississippi, University, MS 39677.

RESEARCH ASSOCIATE A search committee chaired by Judy Thomas, Ph.D., has been formed to fill a position in the Division of Surgical Immunology and Transplantation. We are seeking a person with an interest in endothelial cell biology, immunology and a molecular biology background. The primary laboratory interest is in the interactions of the endothelial cell in transplant rejection, both allograft and xenograft. Applicants must have a Master's degree or equivalent. A Ph.D. is preferable. There are 5 Ph.D.-level positions in the division, with whom the individual will interact. Please send curriculum vitae to: Dr. Carl H. Hopp, Division of Surgical Immunology and Transplantation, Department of Surgery, East Carolina University, 45-10 Brody Building, Greenville, NC 27858. Federal law requires proper documentation of identity and employment eligibility prior to final consideration for this position. East Carolina is an Equal Opportunity/Affirmative Action Employer.

UNIVERSITY OF MARYLAND School of Medicine
Research Molecular Hematology/Oncology

Department of Pathology invites applicants for the position of RESEARCH ASSOCIATE. Three-year appointment supported by a grant to work dependently on study of tyrosine kinase signalling in TNF production by glia and also to teach medical immunopathology. Individual with Ph.D. and excellent training in significant experience in molecular biology to analyze tyrosine kinase signalling and monoclonal antibody production and glia isolation is sought. Please forward curriculum vitae to: Moon Shin, M.D., Professor, c/o Cathy Brown, Department of Pathology, University of Maryland at Baltimore, 10 South Pine Street, Baltimore, MD 21201.

RESEARCH ASSOCIATE Research will focus on the regulation of mammalian collagenase activity by biochemical mechanisms and their role in tumor cell growth. Emphasis will be on mechanisms of regulation of the procollagenase subunit. Candidate should have a Ph.D. degree in cell or molecular biology with experience in proteinase research and DNA/DNA-based techniques. Send curriculum vitae along with two references to: Dr. John E. Brown, Department of Pathology, University of Maryland, Baltimore, MD 21201.

POSITIONS OPEN POSTDOCTORAL FELLOWSHIPS IN PLANT SIGNAL TRANSDUCTION
Waksman Institute, Rutgers University

A postdoctoral research position is available immediately to study, at the biochemical, molecular and genetic levels, signal transduction during induction of disease resistance in tobacco and other dicotyledonous plants. Particular emphasis is being placed on defining the signalic acid signal transduction pathways (Plant Cell 4:359, 1992; Plant J. 2:643, 1993; Plant J. 4:593, 1993) and characterization of the signalic acid receptor (PNAS 90:9533, 1993; Science, 262:1883, 1993).

Applicants should have research experience in protein purification and molecular genetics. Salary is commensurate with experience and will include full tuition at Rutgers University, and a second year of support is available for outstanding candidates. Send curriculum vitae and names of three references to: Daniel Klessig, Waksman Institute, Rutgers University, P.O. Box 759, Piscataway, NJ 08855.

Rutgers University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIP AVAILABLE immediately to investigate the effects of alcohol on hepatocyte and fibroblast replication and liver-specific gene regulation in vivo and in vitro. Applicants should have an M.D. or Ph.D. degree, and be citizens or permanent residents of the United States. Please send curriculum vitae and the names and telephone numbers of three references to: Graham M. Mezey, Professor of Medicine, 921 Ross Research Building, The Johns Hopkins University School of Medicine, 720 Rutland Avenue, Baltimore, MD 21205.

POSTDOCTORAL FELLOWSHIP Position available for an M.D. or Ph.D. to study the pathogenesis of virus-induced demyelination as a model of multiple sclerosis. Research projects involve investigations of the immunopathogenesis of Thielers virus infection and the role of Class I and Class II MHC-restricted immune responses. Related studies utilize the generation of transgenic mice. A good background in immunology, virology or molecular biology is desirable. Send curriculum vitae to: Moses Rodriguez, M.D., Department of Immunology, Mayo Clinic, Guggenheim 4th Floor, Rochester, MN 55905. Mayo Foundation is an Affirmative Action and Equal Opportunity Employer and Educator and Employer.

POSTDOCTORAL FELLOWSHIP Position available for an M.D. or Ph.D. to study promotion of remyelination in the central nervous system. Research projects involve investigations of the immunopathogenesis of virus-induced demyelination as a model for multiple sclerosis. Related studies utilize the characterization of monoclonal antibodies that promote remyelination in vivo and the role of glycolipid background in glial cell biology. Send curriculum vitae to: Gregory A. Grabowski, M.D., Director, Division of Human Genetics, Children's Hospital Research Foundation, 3333 Burnet Avenue, Cincinnati, OH 45229.

POSTDOCTORAL/ASSOCIATE RESEARCH SCIENTIST Position available to study molecular aspects of radioresistance and radiation-induced changes in cell cycle progression in yeast and mammalian systems. Candidate should have a Ph.D. in molecular biology or a related field. Experience with recombinant DNA and yeast preferred but not essential. Send curriculum vitae and names of three references to: Howard B. Lieberman, Center for Radiation Research, Columbia University College of Physiology and Surgery, 630 West 168 Street, New York, NY 10032. We are an Equal Opportunity/Affirmative Action Employer.
NEW OPPORTUNITIES IN NEURONAL CELL BIOLOGY

Wyeth Research (UK) is part of the R&D Division of the Wyeth-Ayerst organisation, a major international pharmaceutical company. Drug discovery activities in the UK are targeted on the CNS with 150 staff dedicated to research into psychiatric disorders. The discovery research facility at the Taplow site comprises Chemistry, Neuropharmacology, Molecular Pharmacology and Molecular and Cell Biology. A new Neuronal Cell Biology Section is being created within the Molecular and Cell Biology Department to establish permanent neuronal cell lines from both rodent and human sources and to define relevant cell phenotypes and responses in support of neuronal cell signalling programmes. The section will also initiate research programmes, in collaboration with other groups within the Company’s global CNS effort, directed towards receptor mediated gene expression and/or cell death mechanisms.

THE OPPORTUNITIES

We are currently seeking to recruit the following for this new group:

SECTION LEADER

- an innovative enthusiastic scientist, with at least 8 years post-doctoral experience and an excellent record of research in neuronal cell biology is required to head up the section. A strong interest in neuronal cell signalling systems and/or mechanisms of neurodegeneration will be an advantage.

The Section Leader will be responsible for developing and integrating in house cell biology techniques in the drug discovery process at Wyeth Research (UK) and will therefore require highly developed communication skills and the ability to train others in the associated techniques.

RESEARCH SCIENTIST

- applications are invited from experienced graduates or recently qualified PhDs with practical experience of cell culture techniques, ideally applied to neuronal cells, and a strong interest in signal transduction mechanisms.

The group will initially comprise the Section Leader, three Research Scientists (BSc/MSc/PhD) and a post-doctoral scientist.

In addition to salaries commensurate with the requirements and status of these positions, our benefits package includes a subsidised Company Pension & Life Assurance Scheme, free Medical Insurance and assistance with relocation where appropriate.

To apply, please write with full career details, including current salary, to:
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At American Cyanamid Company's Agricultural Research Division we have a long-range commitment to discovering ways to increase worldwide crop and livestock production through chemical, biochemical and biological research. This is evidenced by our expanding research budget which has tripled over the last decade.

Research Biologist

We currently seek a Research Biologist to develop a research program focusing on signal transduction pathways in plants. Using the latest technology, you will be responsible for designing novel approaches for the identification of genes and determination of the physiological role of proteins once identified. We require a PhD and postdoctoral experience in molecular biology; experience working with plants or yeasts preferred.

American Cyanamid Company offers an excellent compensation and benefits package which includes 401(k) savings plan, flex-time work schedules and a convenient location one hour from New York City or Philadelphia. To explore this opportunity, forward your resume to: Employment Office, Dept. LS, American Cyanamid Company, Agricultural Research Division, P.O. Box 400, Princeton, NJ 08543-0400. An Equal Opportunity Employer.

The Human Gene Therapy Research Institute at Iowa Methodist Medical Center, located in Des Moines, Iowa, has excellent full-time opportunities for the following positions:

STAFF SCIENTIST

This individual will develop and conduct an independent line of research resulting in novel regulated heterologous expression cassette designs and selective tissue tropism strategies for use in advanced recombinant adenovirus gene therapy vectors. These vectors will be applied to the treatment of solid tumors in humans. Qualifications include a Ph.D. in molecular cell biology and a minimum of two years post-doctoral training from a leading academic center. This individual must be expert in a variety of eukaryotic and prokaryotic molecular biological methods including genomic cloning, mapping of tissue-specific enhancer elements, mapping of inducible promoter elements, complex tissue-specific transgene design, epithelial and neural cell line transformation, and computational molecular biology.

RESEARCH TECHNOLOGIST

This individual will be responsible for the operation of the tissue culture and virus production activities of the BL3 Recombinant Adenovirus Facility. Additional tasks will include junior staff training, SOP development, active participation in the facilities planning process and various administrative duties associated with performance as a senior technologist. Qualifications include 8 years of research technologist experience in industry or academia, with at least 5 years experience as a supervisor in tissue culture/virus production under BL3/GMP conditions. Experience in vaccine production and testing, immunohistochemistry, and basic molecular biological methods is desirable. Salary to commensurate with experience, excellent benefit package available. Submit resume to Human Resources, 1313 High St. Suite 111, Des Moines, IA, 50309; FAX #515-241-8515.
GENEMEDICINE, INC., an emerging leader in non-viral gene therapy, is developing novel gene medicines, comprised of DNA vectors and vector delivery systems, to treat a broad range of genetic and acquired diseases. The Company is backed by several of the most successful venture capital investors in biotechnology, has strong ties to the laboratories of its scientific founders at Baylor College of Medicine and at UCSF and is located close to the Texas Medical Center - the world's largest medical research facility.

GENEMEDICINE is expanding its research and development programs which, in collaboration with a major pharmaceutical company, include gene therapies for treating inflammatory diseases. We now seek to appoint successful and highly motivated scientists to the following positions:

**Director: Exploratory Vector Delivery**
We seek to appoint an accomplished scientist to lead a small group of biochemists and peptide chemists responsible for designing, synthesizing and testing novel systems for targeting genes in vivo. The successful candidate will have a Ph.D., at least four years of experience within a pharmaceutical/biotechnology company and have managed a research group.

**Scientists: Drug-Controlled Gene Therapy**
We seek two Ph.D.-level scientists having at least two years of molecular biology experience to be responsible for a collaborative program with Baylor College of Medicine to develop a gene switch for gene therapy that utilizes steroid-responsive elements and transactivating proteins to control the in vivo expression of administered genes.

**Scientists: Site-Specific Delivery of Macromolecules**
We seek five Ph.D.-level scientists who will be responsible for applying peptide and carbohydrate chemistry to develop technologies for enhancing the cell recognition, entry and processing of DNA expression vectors. Post-doctoral training and evidence of productivity in this area are required.

**Scientists: Pharmacology and Animal Models**
We seek four Ph.D.-level scientists and one B.S./M.S.-level scientist, each with at least three years of experience, to be responsible for establishing animal models of inflammation, peripheral neuropathy and hemophilia. This group will also be responsible for the evaluation of the pharmacology of novel gene therapy systems.

**Scientists: Intracellular Trafficking**
We seek both a Ph.D.-level scientist and a fixed-term post-doctoral fellow with at least two years of experience, to work on vesicular trafficking and/or antigen processing. These scientists will determine the cell entry and trafficking of genes. One of the successful candidates will have experience in immunology and the other in the use of electron and confocal microscopy for studying cell trafficking.

**Scientists: Histologist**
We seek a B.S.-level certified Histologist, Histologist Technician (HT) or a Histotechnologist (HTL), with at least two years of post-training molecular biology experience, to be responsible for preparing conventional fixed and frozen sections, performing histological tests (including in situ hybridization and histochemistry) and to further develop the Company's histology program.

**Scientists: Pharmacokinetics-Pharmacodynamics**
We seek a Ph.D.-level scientist with at least two years of post-Ph.D. experience in the development and application of pharmacokinetic models and the pharmacodynamics of recombinant proteins. Experience in a biotechnology company is desired. This person will be responsible for determining the PK/PD of administered genes and their gene products.

**Scientists: DNA Purification**
We seek a Ph.D.-level scientist with experience in biochemistry, molecular biology (specifically nucleic acid, oligonucleotide, protein or plasmid purification) or a related field, to develop novel methods for preparing and purifying plasmid DNA.

**Scientists: Mammalian DNA Expression Vectors and Immune-Cell-Specific Gene Regulation**
We seek two Ph.D.-level scientists with at least two years of molecular biology experience who will be responsible for identifying and defining promoters and enhancers that function in human lymphocytes and mononuclear cells.

**Scientists: Site-E..**
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**Scientists: Intracellular Trafficking**
...

**Scientists: Histologist**
...

**Scientists: Pharmacokinetics-Pharmacodynamics**
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**Scientists: DNA Purification**
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**Scientists: Mammalian DNA Expression Vectors and Immune-Cell-Specific Gene Regulation**
...

We offer highly competitive compensation packages. For confidential consideration, please send your CV to: GENEMEDICINE, INC., Human Resources, Ref. 694, 8080 North Stadium Drive, Suite 2100, Houston, TX 77054.
RESEARCH POSITION in the Center for Coastal Studies, Scripps Institution of Oceanography.

Applications are invited from scientists and engineers for appointment in the Research Oceanographer series, at the associate, assistant, or full rank. Fields of interest include the: tide, ocean waves, nearshore hydrodynamics, sediment transport in shallow nearshore waters, and coastal meteorology. At time of appointment, applicant must be U.S. citizen or have permanent residence with valid visa and labor certification for specific temporary position. Applications are not accepted from overseas. Additional information is available from: Dr. Donald J. Dworschak, Scripps Institution of Oceanography, 9500 Gilman Drive, C2105-09, University of California, San Diego, La Jolla, CA 92039-0209. UCSD is an Equal Opportunity/Affirmative Action Employer.

SCIENTIST—Research hematologist. To work on a challenging and varied project in a biotechnology-developing company, planning to expand a project in automated cytometry, is looking for a multidisciplined scientist with at least five years of postdoctoral experience in two or more of the following: Microscopy, Hematology, FISH, Density Gradients, Enzymology, Cytochemistry, Cyrogentic. A very focused project will lead to future opportunities for more independent product innovation. We offer competitive salaries and benefits. Send letter of interest and resume to: Ruth White, Applied Imaging Corporation, 2380 Walsh Avenue, Building B, Santa Clara, CA 95051.

SENIOR RESEARCH SCIENTIST

The Department of Emergency Medicine, Carolinas Medical Center, is seeking to fill a position with a senior-level research scientist with a primary interest in cardiovascular physiology, pharmacology, or toxicology. Candidates must have a Ph.D., M.D., or equivalent degree, and have a distinguished record of publications and extramural funding. The candidate will be responsible for conducting an active research program and training postdoctoral fellows. The successful applicant will be expected to establish clinical and laboratory research programs that will submit curriculum vitae and names, addresses and telephone numbers of three references to: Marsha Ford, M.D., Head, Toxicology Laboratory, Carolinas Medical Center, 9825 Broadd Raymond, Ph.D., Division of Research, Department of Emergency Medicine, Carolinas Medical Center, P.O. Box 32861, Charlotte, NC 28232–2861; Telephone: 704/355-3181.

VETERINARY PATHOLOGIST

The Oregon Regional Primate Research Center (ORPRC) has a core staff position for a Veterinary Pathologist at the ASSISTANT or ASSOCIATE SCIENTIST level. Candidates must hold a D.V.M. or equivalent degree, be certified or eligible for certification by the American College of Veterinary Pathologists, and have experience with the pathology of nonhuman primates and other laboratory animals. The selected candidate will be responsible for diagnostic pathology service, supervision of pathology and histology laboratories, interaction with the Center’s research faculty, and participation in the Center’s research mission. The development of an independent research program or participation in an established research program is highly desirable. The candidate must have a Ph.D. in veterinary pathology and at least 3 years postdoctoral experience. Fellows in pathology and microbiology are expected to pursue a career in research. Duties to include: teaching veterinary pathology and participation in the Center’s research mission. The research activities of the Center include: infectious diseases, neuroscience, and reproductive biology. Joint academic appointments are available at the nearby Oregon Health Sciences University. Appointment level and salary are commensurate with qualifications. For consideration for this position, please submit a resume, letter of interest, and the names of three references to: Dr. D. P. Wolf, Chairman, Veterinary Pathologist Search Committee, Oregon Regional Primate Research Center, 5000 Powell, Beaverton, OR 97005. Applications will be accepted through July 15, 1994, or until a suitable candidate is identified. The ORPRC is an Equal Opportunity/Affirmative Action Employer.

RESEARCH TECHNOLOGIST I

POSITIONS OPEN

The Department of Medical Genetics invites applications for a Research Technologist in the Molecular Laboratory Oncology Lab at the University of Nebraska Medical Center. Potential candidates must have a B.S. or M.S. degree in biology/biochemistry or chemistry, and have practical knowledge of protein electrophoresis and Western blotting. Experience with monoclonal antibody labeling with radioactive ligands and/or radioimmunoassay. A knowledge of fractionation, cell culture, and tumor growth in nude mice is highly desirable. Salary negotiable, depending on qualifications. Interested candidates should send curriculum vitae with letter of interest and names and addresses of three references to: Julianne Wolock, Department of Obstetrics and Gynecology, University of Nebraska Medical Center, 42nd Street and Dodge, Omaha, NE 68198–3255; or FAX: (402) 569-8112. Affirmative Action/Equal Opportunity Employer.

NEUROPATHOLOGIST

The Department of Pathology at the University of Chicago Medical Center is seeking a faculty member specializing in Neuropathology. Applicants must be certified or certified eligible in AP or ANP. The successful applicant will be expected to be interested and trained in research related to the nervous system. Additionally, the applicant will have responsibilities in diagnosing and teaching medical students, residents, and graduate students. Opportunities for both independent and collaborative research are available. Small number of funded positions, based on experience and accomplishments. Salary negotiable. An excellent benefit package is included. Please send curriculum vitae with the names and addresses of three references to: Godfrey S. S. M. Ph.D., Chairman, Department of Pathology, MC 3083, The University of Chicago, 5841 South Maryland Avenue, Chicago, IL 60637. An Affirmative Action/Equal Opportunity Employer.

LAND USE/CONSERVATION RESEARCH SMITHSONIAN INSTITUTION

The Migratory Bird Center at the National Zoo is seeking a person to conduct research emphasizing tropical agro-ecosystems and natural habitat conservation policy issues that impact migratory bird populations. Incumbent will utilize research to develop "white papers", articles in the professional and popular media, and propose policy alternatives to governments and international funding organizations. Successful applicant will be involved in projects in agro-ecosystem research and/or conservation who can provide appropriate education and experience, and be actively pursuing research and publications in agro-ecosystem impacts affecting wildlife conservation. This is a Federal Civilian (GS-13) position with salary $35,045 to $65,000.


The JOHNSON SPACE CENTER VISITING SCIENTIST PROGRAM in SPACE BIOMEDICINE supports up to six months of on-site research and additional follow-on research at the Visiting Scientist’s home institution. Sponsoring laboratories award internships to pursue projects in the following discipline areas: (1) Psychological functioning in isolated environments, (2) Neurovascular function and spatial orientation, (3) Exercise physiology, (4) Radiation biology, (5) Physiology of renal stone formation, (6) Neurohumoral control of cardiovascular function, (7) Microstructure of diurnal and paraparotic relationships, (8) Nutritional biochemistry. For additional information or application materials, contact: Barbara Barlaibach (8), USRA, Division of Space Life Sciences, 3600 Bay Boulevard, Houston, TX 77058; 713-244-2000 (Telephone), 713-244-2006 (FAX).


AFFMAY RESEARCH INSTITUTE is an innovative venture dedicated to the development of new technologies that will accelerate the process of pharmaceutical discovery.

SCIENTIST (ANTIBODY-PHAGE)

We are seeking a scientist who will be responsible for the engineering of human antibodies displayed on phage and other formats. The projects involve improving antibody affinity and selectivity through mutagenesis and shuffling combined with library screening and selection tools. The antibody engineering program consists of a team of chemists, molecular biologists, molecular pharmacologists and a hybridoma laboratory. We have strong collaborative links with leading biotechnology companies and the fields of antibody engineering. Relevant publications in this field include: Science 245, 1104 (1989); Science 252, 659 (1991); Proc. Natl. Acad. Sci. USA 88, 58 (1991); J. Biol. Chem. 267, 16007 (1992); J. Amer. Chem. Soc. 115, 357 (1993); Gene 123, 1 (1993); Proc. Natl. Acad. Sci. USA 90, 10700 (1993). We require a Ph.D. with a strong background in molecular biology and particular emphasis on antibody engineering. Experience with antibody-phage display is required.

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University of California, Riverside Department of Hematology

ASSISTANT EXTENSION NEMATOLOGIST/ASSISTANT NEMATOLOGIST

Applications are invited for an Assistant Extension Nematologist/Nematologist. Ph.D. in Nematology, Plant Pathology, and/or other discipline/field required with demonstrated ability to conduct independent research. At least two years of additional training and research experience with plant parasitic nematodes and/or other plant pathogenic parasite. Position is 11-month, 70% extension, 30% research (academic career-track) to establish an innovative, vigorous, and independent research and extension program on alternative/integrated management of nematode pests in diversified agriculture of southern California. Applicants should send curriculum vitae, bibliography, undergraduate and graduate transcript, Ph.D. dissertation summary, reprints and manuscripts in press of research and extension publications, statement of research and extension contributions, and three letters of reference to: Dr. S.D. Van Vundy, Department of Nematology, University of California, Riverside, CA 92521-0415; or contact (FAX) (714) 538-9068 by September 15, 1994. The University of California is an Equal Opportunity/Affirmative Action Employer.

NMR SPECTROSCOPISTS. As part of a major commitment to the development of structural biology at the University of Pennsylvania, the Department of Biochemistry and Biophysics invites applications for tenure-track positions in NMR spectroscopy. Applicants should have demonstrated expertise and accomplishments in modern multidimensional NMR with a strong background in protein and/or nucleic acid structure, dynamics, and function. Please forward curriculum vitae and a statement of background and future scientific intentions, and have 3 letters of recommenda-

tion sent to: Ms. Caryn Stivelman, Johnson Research Foundation, B501 Richards Building, University of Pennsylvania, Philadelphia, PA 19104. More than 150 people, mostly women and minorities are encouraged.

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PROTEIN PURIFICATION ASSOCIATE. The successful candidate will scale up recombinant protein recovery and purification processes and produce clinical grade material at the pilot plant level. Applicants must have a B.S. in biochemistry (or a related field) with 1-3 years relevant experience, or an M.S. in the same areas with one year relevant experience. A hands-on background in recombinant protein purification, liquid chromatography, and protein analytical techniques is also required. Large-scale protein purification experience is desirable as is experience with recombinant protein production under cGMPs. Familiarity with the purification of membrane proteins is a plus but not essential.

PROCESS DEVELOPMENT ASSOCIATE II. The successful candidate will have a Bachelor's Degree in biochemistry, chemistry or chemical engineering with 2-3 years experience in cell culture and assay development. The position requires experience with fermentation analytical tools including, ELISA assay, viral plaque assay, nutrient analysis using both enzymatic assays and HPLC, and FPLC purification analysis. Experience with insect cell culture and baculovirus expression using bench-top fermenters is desirable but not essential.

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MINORITY INVESTIGATOR WORKSHOP
HOW TO SECURE FUNDING FOR HIV/AIDS RESEARCH

A workshop to inform minority investigators of new funding opportunities in AIDS and AIDS-related research in two sessions on September 28, 1994 in Bethesda, Maryland.

Highlights
• The workshop sponsored by the Division of AIDS, National Institute of Allergy and Infectious Diseases, NIH will be held concurrently with the 1994 Annual Meeting of the Laboratory of Tumor Cell Biology, National Cancer Institute, NIH, September 25-31, 1994.
• Details on a future program targeted to underserved minority investigators in AIDS research will be presented. Key feature will be collaborative interaction with and travel to laboratories of established AIDS investigators.
• General grantsmanship information from the Division of Extramural Activities, NIAID, will be presented.
• Full support is available to cover travel, accommodations and registration for the Minority Investigator Workshop and the NCI Meeting for qualified applicants.

Qualifications
• Applicants must be members of an underserved minority including African Americans, Hispanics, American Indians or Pacific Islanders.
• Applicants should have a minimum of 2 years of postdoctoral experience but must not have received competitive R01-type funding in AIDS research.
• Work must be performed at institutions that do not have major AIDS and AIDS-related research programs.

Workshop Applications
• For Workshop applications please contact:
  Jean Smiley, Ph.D.
  Minority Investigator Workshop
  HOW TO SECURE FUNDING FOR HIV/AIDS RESEARCH
  Technical Resources, Inc.
  3020 Tower Oaks, Blvd.
  Rockville, MD 20852
  Telephone: (301) 230-4773

APPLICATIONS FOR WORKSHOP MUST BE RECEIVED NO LATER THAN JULY 1, 1994

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Four courses will be offered at the Complex Carbohydrate Research Center (CCRC) of the University of Georgia. Course 1 (August 1 - 5, 1994), "Separation and Characterization of Glycoprotein Oligosaccharides", is intended for scientists with little experience in carbohydrate analysis. Course 2 (August 8 - 12, 1994), "Structural Analysis of Oligosaccharides", is intended for scientists with some experience with glycoconjugates or for those who have completed the first course, and will focus on techniques of composition and linkage analysis. Course 3 (August 22-26, 1994) "MS and MS/MS Analysis of Glycoconjugates" is intended for scientists with some experience with glycoconjugates and a basic understanding of mass spectrometry. Course 4 (August 29-September 2, 1994) "Fundamentals of ¹H and ¹³C" will focus on ¹H and ¹³C, one- and two-dimensional NMR spectroscopy as applied to carbohydrates. Experience with basic biochemical techniques is a prerequisite for participation in the courses. All courses will consist of hands-on laboratory work, demonstrations and lectures; lab manual including selected analytical techniques and references will be provided. Each course is limited to 10 participants. The cost of registration (including lunch) per course is $500 for individuals from non-profit institutions, $1,100 for others. Registration does not include lodging and travel expenses.

The courses are supported jointly by the Department of Energy Plant and Microbial Carbohydrate Center, and the NIH Biomedical Carbohydrate Resource Center of the CCRC. For further information or to apply for the courses contact: Dr. Roberta K. Merkle, Technical Director for Biomedical Carbohydrates, Complex Carbohydrate Research Center, 220 Riverbend Road, The University of Georgia, Athens, Georgia 30602-4712. Phone: 706-542-4402. Facsimile: 706-542-4412.
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