POSITIONS OPEN

DEPARTMENT OF MICROBIOLOGY
COLORADO STATE UNIVERSITY

Molecular Biology of Bacterial Pathogenesis

The Department of Microbiology at Colorado State University invites applications for a tenure-track ASSISTANT- or ASSOCIATE PROFESSOR position to address the molecular mechanisms of bacterial pathogenesis. Preference will be given to candidates employing molecular biology and biochemical approaches to investigation of fundamental processes in the interaction of bacterial pathogens and host. Candidates should possess the Ph.D. D.V.M./Ph.D., M.D./Ph.D. or equivalent degree, and relevant postdoctoral research experience. The successful applicant will be provided an innovative, extramurally funded research program that complements the existing interdepartmental University Program of Research andScholarlyExcelsior in Infectious Diseases and Immunology. Direction of graduate students and teaching at the undergraduate and graduate levels are crucial responsibilities of this position. Applicants should send curriculum vitae, a statement of research interests and goals, and a list of at least three references by May 31, 1994, to: Dr. Patrick J. Brennan, Search Committee Chair, Department of Microbiology, Colorado State University, Fort Collins, CO 80523; Telephone: 303-491-6700. Salary negotiable. Colorado State University is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR, MEDICAL MICROBIOLOGY AND IMMUNOLOGY

Full-time, tenure-track. The Department of Medical Microbiology and Immunology at the University of Cincinnati College of Medicine seeks a new M.D. or Ph.D. level scientist with experience in the area of bacterial pathogenesis and immunity. The candidate must have at least one year of experience at the medical school or equivalent level and a strong commitment to teaching. The candidate will develop a competitive, extramurally funded research program, and the successful candidate will also be expected to participate in the teaching of graduate and medical students. The position offers a competitive salary and laboratory set-up package with a competitive start-up package. Applications are encouraged from women and members of minority groups. The University of Cincinnati is an Affirmative Action/Equal Opportunity Employer.

Applications should be submitted to: Dr. Nira Ben-Jonathan, Search Committee Chair, Department of Cell Biology, Neurobiology and Anatomy, University of Cincinnati College of Medicine, P.O. Box 670521, Cincinnati, OH 45267-0521. University of Cincinnati is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

TENURE-TRACK FACULTY POSITION IN THE DEPARTMENT OF HUMAN ONCOLOGY

UNIVERSITY OF WISCONSIN--MADISON

Applications are invited for a tenure-track faculty position. Especially interested in applicants at the ASSISTANT/ASSOCIATE PROFESSOR level. Candidates with strong interest and expertise in characterization and mechanism of action of polyamines and the development of polyamine analogs as potential chemotherapeutic agents are encouraged to apply. The successful candidate will have a strong commitment to excellence in research and teaching in human cancer biology. Please submit curriculum vitae, a concise statement of research interests and goals and the names and addresses of three references to: Dr. R. Timothy Mulcahy, Chair, Polyamine Search Committee, 601 Highland Avenue, Room K4/334, Madison, WI 53792.

The University of Wisconsin is an Equal Opportunity Employer.

NEUROBIOLOGIST

The Department of Cell Biology, Neurobiology and Anatomy, University of Cincinnati, invites applications for a tenure-track faculty position at the ASSISTANT or ASSOCIATE PROFESSOR level. We seek an outstanding scientist with expertise in developmental neurobiology or neuroendocrinology, using cellular and molecular approaches. Applicants must have a Ph.D., postdoctoral experience and a strong publication record. The successful candidate will be expected to establish a vigorous, independent research program with extramural funds and participate in the teaching of graduate and medical students. The position offers a competitive salary and laboratory set-up package. Applications are encouraged from women and members of minority groups. The University of Cincinnati is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION

IMMUNOLOGIST/VIROLOGIST

Johns Hopkins University School of Public Health has an ASSISTANT or ASSOCIATE PROFESSOR opening for an experienced Ph.D. or M.D. immunologist/virologist. We especially invite applications from individuals with interests and experience in immunological responses to and correlates of protection conferred by vaccines. Candidates must have demonstrated excellence in independent research. The successful candidate will join a highly active immunology group, which is developing vaccines to protect against respiratory and diarrheal viruses and other mucosal pathogens. This position involves the conduct of independent and collaborative research, and teaching and training of graduate students in the Departments of International Health (Division of Vaccine Sciences) and Immunology and Infectious Diseases. To apply, send a letter of application with a description of current and future research plans, curriculum vitae and names and addresses of three referees to: Dr. Mary Lou Clements, Johns Hopkins University Center for Immunization Research, Hampton House 225, 624 North Broadway, Baltimore, MD 21205; FAX: 410-650-6898. JHU is an Equal Opportunity/Affirmative Action Employer.

MOLECULAR MODELING AND DESIGN

The Biomolecular Structure Center, Departments of Biological Structure and Biochemistry, University of Washington, Seattle, invites applications at the RESEARCH ASSISTANT PROFESSOR level in molecular modeling and design. The successful candidate is expected to have expertise in structure-based design of medically relevant molecules, as well as experience with the application and development of software and databases for structural analysis. A Ph.D. in chemistry, pharmaceutical sciences, biochemistry, or physics is required. Interested applicants should submit a letter of application, curriculum vitae, a statement of career goals and the names of three or more references to: Dr. Wain G. J. Hol, Department of Biological Structure SM-20, University of Washington, Seattle, WA 98195. Applications will be accepted until June 30, 1994. The University of Washington is an Equal Opportunity/Affirmative Action Employer.

Molecular Modeling and Design
Mammalian Geneticist

Unique opportunity to participate in the expansion of McLaughlin Research Institute, a small mammalian genetics center in Great Falls, Montana. The Institute offers a non-bureaucratic, interactive research environment and participation in the Institute’s future development. We have recently moved into a new research building with a large mouse facility. Applicants should have an NIH-supported research program, or be highly likely to obtain independent support. Developmental biologists, molecular geneticists, and neurogenetists whose research emphasizes mouse models are particularly encouraged to apply.

Applications, including names of individuals we may contact for references, should be addressed to:

George A. Carlson, Ph.D.
Director, McLaughlin Research Institute
1520 23rd Street South
Great Falls, MT 59405

For additional information contact George Carlson, Bill Crain or Doug Coffin at MRI, or any of the following members of our Scientific Advisory Committee: Irv Weissman, David Baltimore, David Cameron, Bruce Chesbro, Neal Copeland, Jeff Frelinger, Leroy Hood, or Nancy Jenkins.

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RESEARCH ASSOCIATE
NEUROBIOLOGY

The Neurobiology Department seeks a Research Associate with a BS/MS in Biology or a related field to carry out neurotrophic factor bioassays and data analyses. This position requires 5-10 years’ experience in primary cultures of brain cells and knowledge of oligodendrocytes.

At Amgen, you’ll find our approach to scientific research as rewarding as it is effective. We offer a highly competitive compensation and benefits package that includes a retirement and savings plan, an on-site fitness center, and three weeks’ vacation. Please FAX/mail your resume/c.v. to: FAX: (805) 447-1985. Amgen, Inc., Staffing, Job Code OA-SC-EM-001, Amgen Center, Thousand Oaks, CA 91320-1789. For additional information regarding Amgen’s recruitment process, please call (805) 447-4150. Principals only, please. EEO-Affirmative Action Employer M/F/D/V.

Cell Mediated Immunity

A position is available immediately to study cell-mediated immunity in Hepatitis C virus infection using mouse and chimpanzee models. Experience in CTL analysis, precursor frequency analysis and epitope mapping is required.

Level of appointment and salary will depend on experience.

To apply, please send CV, letters of reference, and statement of career goals to: Alfred M. Prince, M.D., Head, Laboratory of Virology and Parasitology, The Lindsley F. Kimball Institute of the New York Blood Center, 310 East 67th Street, NY, NY 10021. Telephone 212-570-3279; Fax: 212-570-3180. EOE M/F/D/V.

Lindsley F. Kimball Research Institute
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Job Opportunity Hotline: 1-800-835-0058

MOLeCULAR BIOLOGY & IMMUNOLOGY

The Department of Medial Microbiology and Immunology and the H. Lee Moffitt Cancer Center & Research Institute at the University of South Florida College of Medicine are seeking applications for an Assistant and Associate Professor level individuals to participate in the Immunology Program under a stimulating academic environment that includes excellent laboratory and clinical facilities.

The individuals sought should hold a Ph.D. with extensive postdoctoral training. Candidates must have demonstrated productivity and experience in modern molecular research related to tumor immunology. The successful candidates will be expected to establish a vigorous independent research program in molecular immunology and successfully compete for extramural funding. The position for Associate Professor will be required to have established funding. These positions will be tenure earning.

Send current curriculum vitae and a brief statement of major academic interests to Julie Y. Ojew, Ph.D., Immunology Program, Office of Faculty Recruitment, Moffitt Cancer Center, 12902 Magnolia Drive, Tampa, Florida 33612. Applicants who need a reasonable accommodation in order to participate in the selection process must notify Brenda Creas in the Office of Faculty Recruitment, (813) 975-7885, forty-eight hours in advance. Applications must be postmarked by deadline of May 5, 1994.

The H. Lee Moffitt Cancer Center & Research Institute, adjacent to the Health Sciences Center on the University of South Florida campus in Tampa, includes a 162-bed inpatient and ambulatory cancer facility for children and adults, a 20-bed bone marrow transplantation program, a recently established high volume screening program including a fixed site and a mobile unit and a new research facility.
POSTDOCTORAL POSITION

A post-doctoral position is available immediately to join a multi-disciplinary team developing an expert system for preclinical drug metabolism and pharmacokinetics sciences. The overall goal of this team is to optimize the utility of data aiding rational drug development. The anticipated system will integrate information from a variety of sources, assist users in pharmacokinetic data analysis with physiologic and/or mechanistic interpretation, predict outcome of future experiments, use data from other study types (absorption, enzymology), suggest future experiments and assist laboratory personnel in study design and data collection with real-time feedback systems.

The successful candidate must possess a Ph.D. in either Pharmacology, Biomedical Engineering, or related field. Knowledge of Pharmacokinetics, Drug Metabolism and/or Mathematical Modeling of Biological Systems is highly desirable.

Our state-of-the-art facilities are located in a suburban setting 10 miles west of New York City. Salaries and benefits are competitive. To apply, send resume with salary history/requirements to: Dr. Emile Chen, Hoffmann-La Roche Inc., Nutley, New Jersey 07110-1199. We are an equal opportunity employer.

POSTDOCTORAL FELLOW

A leader in development of therapeutic monoclonal antibodies for inflammation, infection, cancer and cardiovascular diseases, Centocor also has major commitments to diagnostic programs in these areas. In support of these programs, the Pharmaceutical Research Division of Centocor currently has an opening available for a postdoctoral fellow within the Peptide R&D Department.

You will collaborate with a multidisciplinary research group to conduct research leading to the discovery and development of diagnostic tools for the early detection of cancer. Applicants should have a Ph.D. in Biochemistry or an allied area. Expertise in protein purification, peptide synthesis and immunoassays is desirable.

Centocor offers a competitive compensation and benefits package, a comfortable work environment and the opportunity for the outstanding individual to make significant contributions on major company projects. If you feel you can meet this challenge, please send your resume to: CENTOCOR, Human Resources/PT-94-02A, 200 Great Valley Parkway, Malvern, PA 19355. Fax: (610) 651-6330. EOE.
POSTDOCTORAL CANDIDATES

The Los Alamos National Laboratory Neutron Scattering Center (LANSCE) is seeking candidates for postdoctoral appointments in Surfactant & Polymer Science. Responsibilities include assisting in experimental programs in polymer composites and/or self-assembling molecules using neutron, x-ray and light scattering methods. A PhD completed within the last 3 years or soon to be completed, in the Physical, Biological or Chemical Sciences required. Annual starting salaries range from $39,660 to $42,860, plus a generous and comprehensive benefit package. Appointments are for 2 years with a possible third year renewal. For additional technical information, contact Dr. Rex P. Hjelm at (505) 665-2372, or hjelm@lanl.gov or Dr. Greg Smith at (505) 665-2842, or gsmith@lanl.gov. For consideration: submit TWO COPIES of a curriculum vitae and publication list to Postdoctoral Programs PD-94-148, MS P290, Los Alamos, NM 87545. Affirmative Action/Equal Opportunity Employer. Individuals with disabilities needing reasonable accommodation should call (505) 667-8622. A Teletype Device for the Deaf (TDD) is available by calling (505) 665-5357. Los Alamos National Laboratory is operated by the University of California for the US Department of Energy.

Los Alamos
NATIONAL LABORATORY

St. Jude Children’s Research Hospital
Danny Thomas, Founder

Department of Biochemistry
Postdoctoral Fellowships

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

John Cleveland: Myc oncogene control of cell cycle progression, apoptosis and transcription.
James N. Ihle: Mechanisms of hematopoietic stem cell growth regulation, differentiation and transformation.
Paul Ney: Transcriptional regulation of globin gene expression and erythroid differentiation.
Suzanne Jackowski: Cell cycle regulation of membrane phospholipid biosynthesis.
Charles Rock: Role of phospholipid-derived second messengers in growth factor signal transduction.
Robert Rooney: Mechanisms of transcription factor regulation by the E1A oncogene.
Brian Sorrentino: Retrovirally mediated transfer of drug resistance genes to hematopoietic stem cells.
Gerard Zambetti: Function of wild-type and mutant p53 in tumor suppression and oncogenesis.

Applicants should submit a brief statement of research interests, curriculum vitae and the names of three references to:
- Biochemistry Departmental Fellowships
- The Department of Biochemistry
- St. Jude Children’s Research Hospital
- 332 North Lauderdale • Memphis, TN 38101

A DYNAMIC MISSION
At the Glaxo Inc. Research Institute,
Our Priority Is Progress.

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

The following opening is available within our DEPARTMENT OF CELLULAR BIOCHEMISTRY. Interests of this group range from theory and practice of receptor-ligand interactions, to signal transduction mechanisms, to the molecular biology of receptors. The successful candidate will join our highly collaborative research team focused on G-protein coupled receptors and their second messenger systems. This individual will assist in developing a research program based on the molecular pharmacology of G-protein coupled receptors and their signalling systems.

SENIOR SCIENTIST

Selected individual will be responsible for developing an independent research program on the molecular biology of receptors, and take part in both exploratory projects as well as those relating to compound development.

Background must include a Ph.D. in Molecular Biology, Pharmacology, Biochemistry, or a similar discipline with a minimum of 2 years postdoctoral experience in the molecular pharmacology of G-protein coupled receptors. Previous experience in isolation and cloning of receptors, in situ hybridization, or site-directed mutagenesis is required.

At Glaxo, pride in our people is reflected in excellent salaries and a flexible benefits package, as well as in such amenities as an on-site fitness center and a work setting in which you will take pride. Research Triangle Park, NC, offers an academically enriched quality of life complete with cultural and recreational advantages. For confidential consideration, send your resume to include salary history, to: Human Resources Department, Job #ASC912703, Glaxo Inc., P.O. Box 13398, Research Triangle Park, NC 27709. (No Phone Calls or Agency Referrals, Please.) An Equal Opportunity Employer M/F/D/V.

Glaxo Inc.
The Time For Achievement Is Now
POSITIONS OPEN

Geosciences: One (ASSISTANT/ASSOCIATE PROFESSOR) to begin August 1, 1994, in GIS/Spatial Analysis. Review of candidates will begin immediately. Ph.D. in Geography or related field required. Salary commensurate with rank and experience. Send letter of application, curriculum vitae and three letters of recommendation to: Professor - GIS/Spatial Analysis Professor Position, Murray State University, Murray, KY 42071.

Responsibilities include teaching courses in introductory and advanced GIS/spectral analysis, and a graduate course in specialty area. The candidate must have a commitment to research and to securing external funding.

The Department of Geosciences is in the College of Science, and is strongly aligned with the Mid-America Remote Sensing Center (MARC) and the Murray State University Center of Excellence for Reservoir Research. Major equipment/software include two IBM RISC System 6000®'s, several high-resolution digital large format color electrostatic and pen plotters, numerous PCs, PC ARC/INFO, ARC/INFO, ARC/CAD, GRASS, PC ERDAS, ERDAS, ELAS, MAFFINFO, and IDRISI.


Apply: Neil V. Weber, Chair, Department of Geosciences, P.O. Box 9, Murray, KY 42071-0009. Telephone: (502) 762-2891, Fax: (502) 762-4417.

The University of Wisconsin–Madison. Department of Human Oncology seek two full time, tenure-track biologists with research interests broadly related to breast cancer. Areas of interest include but are not limited to: molecular genetics, signal transduction, breast cancer biology, and epidemiology and prevention of metaplastic and/or lobular carcinomas. Candidates who have tenure-track positions at the ASSISTANT, ASSOCIATE or FULL PROFESSOR level are encouraged to apply. The successful candidate will be expected to develop a research program in their area of expertise, and to establish an independent research program. Experience in research is required. Please send curriculum vitae, a brief statement of research interests, and three letters of recommendation to: Robert C. scissors, Ph.D., Department of Human Oncology, University of Wisconsin–Madison, Madison, WI 53792.

The University of Wisconsin is an Equal Opportunity Employer.

The University of Wisconsin is an Equal Opportunity Employer.

POSITIONS OPEN

PHARMACEUTICAL BIOTECHNOLOGY

The University of Connecticut is making a major commitment in the field of biotechnology. The School of Pharmacy and Biotechnology invites applications and invites applications for an anticipated tenure-track faculty position at the ASSOCIATE or FULL PROFESSOR level. This is an outstanding opportunity for the successful candidate. Applicants will be considered for tenure-track positions in the fields of pharmaceutical biology of the vascular wall. An understanding of the catabolism system and the diseases to which it is related is essential. Research in this area of study may be related to any of the components of the vascular wall. The successful candidate would be expected to pursue a vigorous independent research program. The successful candidate will be expected to share laboratory facilities with the research group in the Molecular Biology Program.

The successful candidate will be expected to establish interactions with the Pharmaceutical industry within the state for the purpose of collaborative joint programs. Applicants responsibilities will be at the undergraduate and graduate levels in appropriate areas. Applications should include curriculum vitae, a brief summary of research interests and at least three references. Review of applications will begin on May 15, 1994, and continue until position is filled. All correspondence and letters of reference should be sent to: President, School of Biotechnology Search Committee, University of Connecticut, 8-92, Storrs, CT 06269-2092. We encourage applications from underrepresented groups, women and people with disabilities. (Search #4A269)

APPLIED ELECTROCHEMISTRIST. Full-time, non-tenure- track appointment at ASSISTANT PROFESSOR level beginning September 1994 to teach a variety of junior and division courses in Environmental Sciences. Ph.D. required, teaching experience preferred. Send full curriculum vitae, statement of interest, any available teaching evaluations, and publications to: Environmental Science Search Committee, University of Washington, P.O. Box 353430, Seattle, WA 98195-3430. Applications should be postmarked by December 1, 1994. Send curriculum vitae, transcripts, a brief statement of teaching and research interests, and the names, addresses and telephone numbers of at least three references to: Dr. Jack Kinkaid, Department of Biochemistry, Emory University School of Medicine, Atlanta, GA 30322. Telephone: (404) 727-2735, Fax: (404) 727-3231. Emory University is an Equal Opportunity Employer and applications from women and minority candidates are strongly encouraged.

ASSISTANT PROFESSOR GENETICS AND MICROBIOLOGY

The Department of Biology, St. Andrews Presbyterian College, invites applications for an Assistant Professor to begin fall 1994, with the possibility of the position becoming tenure-track. The successful candidate is expected to teach courses in biology, and to contribute to the biochemistry program, supervise undergraduate research projects and participate in the College's general education program. Ph.D. required. Applicants should submit curriculum vitae, transcripts, a brief statement of teaching and research interests, and the names, addresses and telephone numbers of at least three references to: Dr. James L. Mabry, St. Andrews Presbyterian College, Biochemistry, Natural and Health Sciences, St. Andrews Presbyterian College, 1700 Dogwood Mile, Laurensburg, NC 28353, by May 15, 1994. An Affirmative Action/Equal Opportunity Employer. Women and minority candidates and individuals with disabilities are strongly encouraged to apply.

POSITIONS OPEN

MISSOURI: The Division of Oncology at Washington University School of Medicine seek applicants for tenure-track or tenure-eligible positions for the ASSISTANT-ASSOCIATE PROFESSOR level. These newly formed Medical and Molecular Oncology Divisions of the Department of Medicine plan to emphasize collaborative cancer-related interactions between clinical and laboratory. Candidates should be committed to full-time academic careers in clinical, translational research or laboratory. Special emphasis in collaborative research include pharmacology, molecular diagnostics, immunotherapy, and gene therapy. Send curriculum vitae and three letters of recommendation to: Dr. H. Y. Horell, M.D., Chief, Molecular Oncology, Campus Box 8022 or Daniel C. Ide, M.D., Chief, Medical Oncology, Campus Box 8022, St. Louis University School of Medicine, 600 South Euclid Avenue, St. Louis, MO 63110.

POSITIONS OPEN

EMORY UNIVERSITY SCHOOL OF MEDICINE FACULTY POSITIONS IN ENVIRONMENTAL SCIENCE AND MOLECULAR BIOLOGY

Under the aegis of a new chair, the Department of Biochemistry seeks to fill two tenure-track faculty positions in an initial phase of faculty expansion. The appointments preferred will be at the ASSISTANT PRO- FESSIONAL level, although other academic ranks will be considered. The department is housed in the new Rollins Research Center and includes research facilities, beam on strong ongoing interdisciplinary research programs, and is part of an outstanding graduate program. Candidates should hold a doctoral degree and have postdoctoral training, and will be expected to maintain a vigorous, independent research program. The research area is open. Senior applicants should have a nationally recognized and extramurally funded research program. Salary and start-up funding are very competitive. Applications will be considered until the positions are filled. Please send curriculum vitae, including a description of research interests and responsibilities, and three letters of recommendation to: Dr. Jack Kinkaid, Department of Biochemistry, Emory University School of Medicine, Atlanta, GA 30322. Telephone: (404) 727-2735, Fax: (404) 727-3231. Emory University is an Equal Opportunity Employer and applications from women and minority candidates are encouraged.

ASSISTANT OR ASSOCIATE PROFESSOR, NEUROBIOLOGY. The Department of Anatomy and Neurobiology, University of Kentucky, invites applications for a position at the ASSISTANT or ASSOCIATE PROFESSOR level. Candidates should hold a Ph.D. and/or M.D. with appropriate postdoctoral experience and publications. This position will be to study head trauma and the role of cerebral injury including spinal cord injury. Studies should complement and expand the strong programmatic interest in trophic factors in the Neurobiology Program. Candidates are expected to begin work in the fall semester. Applications should be postmarked by December 1, 1994. Interested candidates should submit curriculum vitae, description of current research interests and responsibilities, and names and addresses of three references to: Dr. Don M. Gash, Professor and Alumni Chair, Department of Anatomy and Neurobiology, University of Kentucky Medical Center, 800 Rose Street, Room MN 224, Lexington, KY 40536-0054. University of Kentucky is an Affirmative Action/Equal Opportunity Employer.
Assistant/Associate Professor
Division of Periodontology
Department of Stomatology
University of California
San Francisco (UCSF)

The Department of Stomatology of the University of California San Francisco School of Dentistry seeks applicants for a full-time, tenure-track position in the Division of Periodontology at the assistant or associate professor level. This position will be available after July 1, 1994. Applicants must have a dental degree (DDS, DMD, or equivalent) and a certificate of advanced training in periodontology. A Ph.D. or equivalent in a relevant discipline is required (e.g., oral biology, cell and molecular biology, microbiology, pharmacology, or immunology). Responsibilities include teaching oral biology and periodontology at the undergraduate and graduate levels. Successful applicant should have the ability to conduct an independent research program and the potential to obtain extramural research funds. Salary and rank commensurate with experience. The University of California is an EEO/AA employer; women, minorities, and persons with disabilities are encouraged to apply. Interested applicants should submit a curriculum vitae and the names of three individuals who would be willing to supply letters of recommendation to Dr. Mark I. Ryder, Division of Periodontology, Box 0650, UCSF School of Dentistry, San Francisco, CA 94143-0650. Applications should be received by July 15, 1994, to receive full consideration. Position open until filled.

Experimental Pharmacologist

You will perform pharmacological assays of novel anti-inflammatory compounds, and evaluate pharmacokinetics and efficacy. This position will involve identifying novel lipid mediators and developing experimental models of chronic inflammation, including atherosclerosis, nephroclerosis, and vascular stenosis. Requires a PhD and 3+ years' experience in animal models of experimental pharmacology. Knowledge of pharmacokinetics, models of inflammation, isolation and purification of lipids, and pharmacology of drug development is preferred. Refer to JC: LM/EPHAR.

Experimental Pathologist

You will participate in the effort to identify novel lipid mediators by establishing in vivo models of chronic inflammation in the rat, involving atherosclerosis, renal inflammation and wound healing. You will also test the efficacy of therapeutic drugs via histologic and biochemical assays. Requires a PhD with 3+ years' experimental pathology experience or a BS/MS with 5+ years' experience. Expertise in histology and immunohistochemistry essential. Experience with image analysis and models of chronic inflammation preferred. Refer to JC: LM/EPATH.

Project Leader

You will lead a project involving the delivery of antisense oligonucleotides for cardiovascular application. Responsibilities will include evaluating data, planning and managing the project, and coordinating the R&D activities of two collaborating companies. Requirements include a PhD in molecular biology, pharmacology, pharmaceutical science or a related field with 3+ years' industrial experience, preferably as a member of a project team. The ideal candidate must be a team player, have an understanding of the business and regulatory environments, and be able to guide basic science to potential clinical therapies. Project management experience is a plus. Refer to JC: R/PL.

At CV Therapeutics, a growing biopharmaceutical company focused on cardiovascular diseases, we have a clear-cut advantage in the development of novel drugs. Our proprietary technology and scientific team put our research efforts at the forefront of the industry. We are currently seeking outstanding PhDs and Research Associates to contribute to our research and product development efforts.

CV Therapeutics

Learn more about all of the professional and personal advantages we offer our people. Send your CV along with a cover letter indicating appropriate Dept. #, and the names of three references to Pat Donchin, CV Therapeutics, Inc., 1615 Plymouth St., Mountain View, CA 94043. EOE.
**NATIONAL UNIVERSITY OF SINGAPORE**  
**FACULTY OF SCIENCE**

Applications are invited for Faculty positions/appointments in one of the following departments from candidates who must possess a relevant PhD degree. Preference will be given to those who are able to teach in more than one of the areas listed under the Department they are applying to and with proven ability in research.

### BOTANY
- Molecular Biology  
- Gene Transfer Systems  
- Molecular Genetics  
- Biochemistry  
- Physiology  
- Morphogenesis

### CHEMISTRY
- Inorganic Chemistry (applications of group theory and multi-nuclear/multidimensional NMR spectroscopy)  
- Electrochemistry (electroanalytical chemistry; corrosion)  
- Analytical Chemistry (analytical spectroscopy; multichannel spectrometry)  
- Materials Science (composite materials)

### PHARMACY
- Pharmaceutical Chemistry/Pharmaceuticals/Pharmacy Practice

**Gross annual emoluments range as follows:**

<table>
<thead>
<tr>
<th>Grade</th>
<th>Salary Range (S$)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecturer</td>
<td>55,180 - 70,510</td>
</tr>
<tr>
<td>Senior Lecturer</td>
<td>64,380 - 116,690</td>
</tr>
<tr>
<td>Associate Professor</td>
<td>103,370 - 143,960</td>
</tr>
</tbody>
</table>

**(US$1.00 = S$1.58 approximately)**

The commencing salary will depend on the candidate's qualifications, experience and the level of appointment offered. In addition, a 13th month allowance and an Annual Variable Component may be payable under the flexible wage system applicable to staff on normal contracts.

Leave and medical benefits will be provided. Depending on the type of contract offered, other benefits may include: provident fund benefits or an end-of-contract gratuity, a settling-in allowance, subsidised housing or a housing allowance, education allowance for up to three children subject to a maximum of S$16,425 per annum per child, passage assistance and baggage allowance for the transportation of personal effects to Singapore. Staff members may undertake consultation work, subject to the approval of the University, and retain consultation fees up to a maximum of 60% of their gross annual emoluments in a calendar year.

All academic staff will be given a networked microcomputer with access to an IBM mainframe computer, UNIX hosts, a supercomputer, departmental laser printers, a wide spectrum of software, on-line library catalogue, CD-ROM databases, Teleview, ITV, BITNET and Internet.

Application forms and further information on terms and conditions of service may be obtained from:

- **The Director**  
  **Personnel Department**  
  **National University of Singapore**  
  **10 Kent Ridge Crescent**  
  **Singapore 0511**

Enquiries may also be sent through BITNET to: PERPL@NUS3090, or through Telefax: (65) 7763948.

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### Scientist

Reporting to the Research Director, you will be involved in the search for new therapeutics using receptors and novel bioactivity assays. Accountable for all elements of your assigned projects, you will provide innovative direction in literature research, strategic planning, and experimental design. Your Ph. D. is complemented by substantial postgraduate research in the molecular aspects of cell biology, immunology, or pharmacology. Strong managerial and communication skills are essential as is a proven ability to lead a focused research effort. A background in mammalian cell transformation and cytokine-receptor signal transduction would be advantageous.

We offer a competitive remuneration and relocation package along with the opportunity to enjoy an attractive lifestyle in the world-class city of Toronto. Please apply in writing, quoting File #0331, to: Manager, Human Resources, Cangene Corporation, 3403 American Drive, Mississauga, Ontario L4V 1T4 Canada Telephone: (416) 673-0200  
Fax: (416) 673-5123

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**Indiana Molecular Biology Symposium VIII**  
**October 27-30, 1994**

**ORIGINS AND EVOLUTION OF ANIMAL BODYPLANS**

**INDIANA UNIVERSITY**  
**Indiana Institute for Molecular and Cellular Biology**

**Keynote Address**  
**Stephen Jay Gould**  
Origins of Bodyplans  
Bruce Runnegar, Simon Conway Morris, Rudolf Raff, Jarmlia Kukalova-Peck

**Segmentation and Axes**  
**Ruth Lehman, Thomas Kaufman, Michael Akam, Robb Krumlauf, Clifford Tabin**

**Modifications of Early Development**  
**Einhard Schierenberg, Billie Swalla, David Fitch, James Hanken**

**Function, Ecology, and Life History in the Evolution of Development**  
**Mary Jane West-Eberhard, David Wake, Richard Strathmann, Diane Wheeler**

**Novel Features in Evolution**  
**George Miklos, Margaret McFall-Ngai, Joram Platigorsky, Nicholas Toth**

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In 1991, Finnigan MAT started a revolution in analytical biochemistry by becoming the first company to introduce a benchtop matrix-assisted laser desorption/ionization (MALDI) mass analyzer, the LASERMAT, designed specifically for use by biochemists. The success of the newly launched LASERMAT 2000, a second generation instrument with improved performance and automation, has given rise to an exciting opportunity for a sales person.

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We offer a competitive salary and a full range of benefits as would be expected from a leading manufacturer of scientific equipment. Please apply with a detailed resume to Human Resources, Finnigan MAT, 355 River Oaks Parkway, San Jose, CA 95134-1991. Finnigan MAT is an equal opportunity employer.
The George Washington University Medical Center invites applications for a faculty position at the ASSISTANT PROFESSOR level. Applicants will possess a Ph.D. degree and have a proven track record of academic performance. The individual will directly contribute to research efforts as part of a research-clinical team in the study of the human primary shock. Strong expertise is expected in cellular biochemistry/physiology with a specific focus on elucidating basic injury mechanisms in disease-prone areas of the medical profession, including role of divalent cations and oxidative/reductive stress as mediators of cellular dysfunction. Start-up funds and ample laboratory space will be provided. The anticipated start date is August 1, 1994. Interested candidates should forward curriculum vitae and names and addresses of three references to: Dr. Michael Alexanian, Research Associate Director, General Surgery, George Washington University Medical Center, 2150 Pennsylvania Avenue, N.W., Washington, D.C. 20037. George Washington University is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITIONS
Cornell University Medical College
Department of Pharmacology

Candidates are sought for two tenure-track positions at the level of ASSISTANT or ASSOCIATE PROFESSOR in basic sciences areas related to the discipline of pharmacology. The candidate's responsibilities would include independent research in the areas of pharmacology and participation in both medical and graduate student teaching programs in the department. Applicants should send curriculum vitae, a summary of proposed research, and should arrange to have letters sent from at least three scientists who can evaluate the candidate's accomplishments. Cornell University Medical College is a part of the New York University-Hospital-Cornell Medical Center and is adjacent to Memorial Sloan-Kettering Cancer Center and Rockefeller University. Applications should be sent to: Search Committee, Department of Chemistry, E-409, Pharmacy Department, Cornell University Medical College, 1300 York Avenue, New York, NY 10021. Equal Employment Opportunity/Affirmative Action/ADA/VHV.

ASSOCIATE/ASSISTANT PROFESSOR
The Department of Veterinary Anatomy and Cell Biology is a dynamicигра for tenure-track faculty position at the Associate or Assistant Professor level, starting July 1, 1994, "Pending Final Approval". Applicant at the Associate level should have an established, funded research program and applicant at the Assistant level should either have funding or show promise of obtaining it. Terminal degree in natural or biomedical sciences. Excellent experience and record in research. The successful candidate will teach in a team-taught course in the professional curriculum and maintain an independent research program that focuses on current questions in cell, molecular or developmental biology. Application deadline is May 5, 1994, or until suitable applicant is found. Submit curriculum vitae, names, addresses and telephone numbers of at least three references and a summary of current research to: Dr. John E. Martin, Chair of Faculty Search Committee, Department of Veterinary Anatomy and Cell Biology, School of Veterinary Medicine, Louisiana State University, Baton Rouge, LA 70803.

CHIEF, ILLINOIS STATE GEOLOGICAL SURVEY (ISGS). Provide scientific leadership and administrative direction to staff of approximately 200 and technical and support personnel conducting basic and applied research. Candidates should have a Ph.D. in geosciences with an established research record; demonstrated ability and leadership in administration of a multidisciplinary organization involved in research and service; a record of adherence to EEO guidelines; articulate and personal written and oral communication skills; and the ability to attract funding for research. To apply, send letter of application, names and addresses of references and resumes (reviewed by July 15, 1994) to: Illinois State Geological Survey, 615 East Peabody Drive, Champaign, IL 61820, Telephone: (217) 244-2776. A resume, letter of intent, current status, and ADA/VHV.

POSITIONS OPEN

FACULTY POSITION AVAILABLE
DEPARTMENT OF SURGERY

MOLECULAR BIOLOGIST FACULTY POSITION
At the University of New Jersey Medical School is seeking a Molecular Biologist, Ph.D., with special expertise in Heat Shock Protein for a faculty position at the ASSISTANT PROFESSOR level. Competitive salary and fringe benefits package. Availability of lovely suburban residential areas in close proximity to New York City makes this position most attractive. Please send curriculum vitae to: Edwin A. Deitch, M.D., Department of Surgery, UMDNJ-New Jersey Medical School 185 South Orange Avenue—Room G506 Newark, NJ 07103

UNIVERSITY OF MEDICINE AND DENTISTRY OF NEW JERSEY. Equal Opportunity/Affirmative Action Employer.

NMR OPERATIONS MANAGER
At the University of Texas Branch (UTMB) Galveston, Texas

Nuclear Magnetic Resonance (NMR) spectrometrist are invited to apply for the position of Operations Manager of the University of Texas Branch Magnetic Resonance Center. The NMR Center is located in a multi-user, high field, clear varian UNITYplus 750, 600 and 400 MHz and other lower field instruments. The 750 MHz instrument is scheduled for installation in early fall 1994. The NMR Center is part of a multi-center, multi-disciplinary program in the manager of the NMR operations of a major Structural Biology Center at UTMB. The NMR Center will be housed in a recently renovated building on campus, with operating funds, equipment and the building funded by several endowments, UT and NIH. The individual should have a Ph.D. and a strong background in modern, bio/molecular NMR instrumentation and applications software for multidimensional pulse sequence generation. The position will be encouraged to participate in collaborative projects associated with the work in the molecular biology user community. The NMR Center will be directed by Dr. David Gorenstein and will include several new faculty appointments in biomolecular NMR spectroscopy. Resumes should be sent to: Dr. James C. Lee, Department of Human Biological Chemistry and Genetics and the Sealy Center for Molecular Science, University of Texas Medical Branch, Galveston, TX 77555. UTMB is an Equal Opportunity M/F/VH Affirmative Action Employer.

PROFESSOR OR ASSOCIATE PROFESSOR
The Department of Pathology at the New York Hospital-Cornell Medical Center is searching for a board certified academic neuropathologist to direct an active neuropathology service. The individual will also be expected to carry on a clinical or basic research program, that focuses on current questions in cell, molecular or developmental biology. Application deadline is May 5, 1994, or until suitable applicant is found. Submit curriculum vitae, names, addresses and telephone numbers of at least three references and a summary of current research to: Dr. John E. Martin, Chair of Faculty Search Committee, Department of Veterinary Anatomy, School of Veterinary Medicine, Louisiana State University, Baton Rouge, LA 70803.

EDITORS, Journal of Clinical Pharmacology, Official Journal of the American Association for Clinical Pharmacology. Eminent in the field of pharmacology, either basic, clinical, or both, is required. Experience as editor, as a member of editorial boards of scientific journals preferred, but not necessary. Interested and qualified candidates should submit current curriculum vitae by no later than July 31, 1994, to: American College of Clinical Phases, c/o Office, 300 Oinkley Boulevard, Yorkville, NY 13495-1332.

JUNIOR FACULTY POSITION
SECTION OF IMMUNOBIOLOGY
Vanderbilt University

The Section of Immunobiology seeks applicants for a junior faculty position. Qualified applicants in all areas of immunobiology are invited to apply. We are particularly interested in candidates who will complement the existing basic research program. Research areas of interest for study in the Section of Immunobiology include T lymphocyte activation, differentiation and tolerance; T lymphocyte development and the generation of T cell responses; and the development of transplacental regulation; cytokines; immunoglobulin gene rearrangement and autoimmunity. Candidates are expected to develop an independent research program and to participate in Committee activities. The Section of Immunobiology is committed to increasing representation of minorities and women on the faculty and considers applications from such candidates. A candidate's application package must include curriculum vitae, a summary of present and future research interests and three letters of recommendation. Completed applications should be received at the address below no later than June 15, 1994. Dr. Kim Bottomly, c/o Administrator, Section of Immunobiology, Yale School of Medicine, P.O. Box 26011, New Haven, CT 06520-8011. An Equal Opportunity/Affirmative Action Employer. Women and minority candidates are encouraged to apply.

DONALD J. CRAM TEACHER-SCHOLAR
The Department of Chemistry and Biochemistry at the University of California, Los Angeles, is pleased to announce the availability of the Donald J. Cram Teacher-Scholar. The Donald J. Cram Teacher-Scholar award honors Professor Cram and recognizes his many contributions to the advancement of chemical biology. Outstanding young chemists who have received their doctorate in any area of chemistry are eligible for nomination. The Donald Cram Teacher-Scholar Fellow is a two-year appointment at the rank of Adjunct Assistant Professor. The Fellow is expected to teach a reduced course load at the undergraduate level and to contribute to graduate level teaching. Support is available to support travel and other research expenses. The appointment can start on or after July 1, 1994. Direct applications will not be accepted. Letters of nomination should be sent to: Selection Committee, Donald J. Cram Teacher-Scholar, c/o K. N. Houk, Chair, Department of Chemistry and Biochemistry, University of California, Los Angeles, 405 Hilgard Avenue, Los Angeles, CA 90024-1569. Nominators are requested to send 3 letters with no fewer than two additional letters from people who can be contacted for further information on nominees. The University of California is an Affirmative Action and Equal Opportunity Employer.

POSTDOCTORAL POSITION
TBP STRUCTURE-FUNCTION

An NIH-funded postdoctoral position is available to examine the role of TATA and TAF proteins in transcription initiation complex formation in the Saccharomyces cerevisiae system [see J. Biol. Chem. 268: 15325-15328 and references therein]. We are currently using a combination of biochemical, genetic and biophysical methods to study the interactions of these transcription factors. Interested parties should send curriculum vitae and arrange to have at least two letters of recommendation sent to: Dr. P. Anthony Weil, Department of Molecular Physiology and Biophysics, Vanderbilt University, School of Medicine, Nashville, TN 37232. Email: weil@ crvax.vanderbilt.edu. Vanderbilt University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION
TO STUDY HERPESVIRUS NEUROTROPISM AND VIRULENCE

An NIH-funded postdoctoral position is available to examine the role of TAF and TAF proteins in transcription initiation complex formation in the human herpesvirus 6 (HSV-6) system. High background in the nervous system and virus are essential. Good record of publication experience in virology and molecular biology is encouraged to apply. Send curriculum vitae, description of research interests and experience, plus three letters of recommendation to: Professor Lynn W. Enquist, Department of Molecular Biology, Princeton University, Princeton, NJ 08544. FAX: 609-258-1001; Email: lweil@princeton.edu. Princeton University is an Equal Opportunity/Affirmative Action Employer.
RISK MANAGEMENT: ENVIRONMENTAL RESEARCH

The Center for Risk Management of the Health Sciences Research Division at the Oak Ridge National Laboratory (ORNL) has immediate PhD-level openings in the following areas:

RISK ASSESSMENT
Requires a PhD in geology, health physics, environmental sciences, or chemistry, together with a working knowledge of risk assessment methodologies and experience dealing with federal agencies.

BIOTECHNOLOGY
Requires experience in either prokaryotic molecular cloning methods (Bioengineering) or in developing noninvasive diagnostic techniques (medical biotechnology).

SOIL SCIENCE
Must have demonstrated ability to direct research on the effectiveness of soil remediation technologies that remove volatile organics from soils.

ORNL is managed by Martin Marietta Energy Systems, Inc., for the U.S. Department of Energy. For immediate consideration, send your resume by May 2, 1994 to: Dr. Curtis Travis, Oak Ridge National Laboratory, Dept. SCI-0415, P.O. Box 2008, Oak Ridge, TN 37831-6492.

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Imagine The Possibilities

At Berlex, we've built our reputation on FDA-approved product successes and a proven track record in the pharmaceutical industry. To meet the challenges before us, we're seeking the following Associate Scientists to contribute to our research efforts. If you've been looking to join forces with an internationally recognized pharmaceutical team, imagine building your career with Berlex in the beautiful San Francisco Bay Area.

ASSOCIATE SCIENTISTS

Molecular Pharmacology
Supporting our new lead discovery and optimization efforts, the candidates we select will conduct automated drug screening bioassays and will assist in the development and transfer of bioassays from various research groups to the Molecular Pharmacology Lab. Other duties will include optimizing newly transferred bioassays in preparation for automation; collecting, analyzing, interpreting and presenting data in a suitable report format; and maintaining lab supplies/equipment. Along with a BS/MS in biological sciences or relevant field, we require significant experience in bioassay development, particularly radioligand and binding, enzyme inhibition, and immunoassays. PC literacy and excellent interpersonal skills are a must. Prior industry experience in pharmacology or biochemistry is preferred. Dept. B94-004.

Gene Expression
Working primarily with insect cells, your responsibilities will include design of expression systems, transfection, recombinant selection and characterization, cell line development, and optimization of growth and expression. The successful candidate will interact with a variety of research teams and will also interface with the production staff. Work site will be at our South San Francisco facility. We require a related BS/MS degree and several years' experience in cell culture and molecular biology. Dept. B94-010.

As a US subsidiary of an international Fortune 500 company, Berlex is proud to offer competitive salaries and a generous benefits package. To apply, send your resume, indicating the department number and your position of interest, to: BERLEX, HUMAN RESOURCES EMPLOYMENT, 15049 SAN PABLO AVE., RICHMOND, CA 94804-0099. EO/E. Principals only please.

The Best Is Yet To Come
EXPLORATION OF THE UNIVERSE
a challenge for Europe and its best engineers

The European Southern Observatory (ESO) is an intergovernmental organisation responsible for the most advanced astronomical research in the southern hemisphere. At night, Member States of the ESO are Belgium, Denmark, France, Germany, Italy, the Netherlands, Sweden and Switzerland.

As the prime European astronomical centre, ESO occupies a leading position in the world's scientific community. Its research work is of great value to many areas of science and industry. The Very Large Telescope (VLT) is a 400 MDM programme expected to be completed by the year 2000. It consists of four 8-metre telescopes to be built by European industry and installed in Chile. ESO is responsible for the conceptual design, engineering design and construction of some essential parts, as well as for the overall programme management.

These are exceptional opportunities for those seeking creative involvements in an international scientific environment. Applications are invited for the following position, based at the ESO headquarters in Garching near Munich, Germany.

For the Instrumentation Department in its VLT Division, ESO is seeking a (m/f)

**SENIOR ASTRONOMER/PHYSICIST**
Head of the Optical Detector Group (Ref.: EVL 224)

Profile: applicants should have a Ph.D. in Astronomy or Physics. They should have a record of excellence in the application of optical detector systems to astronomical research. This is likely to have taken the form either of responsibility for a detector group in a major research institute or of a relevant role in the implementation and operation of telescope detector systems. A specific knowledge of slow scan and scientific charged coupled devices (CCDs) is a further requirement. Extensive managerial experience, a track record of astronomical research and a proven knowledge of optical instrumentation will be regarded as advantages in the evaluation procedure.

Responsibilities: the main tasks of the Instrumentation Department's Optical Detector Group are: (i) to design, procure, integrate, test and install the CCD systems for the telescope Test Cameras and other scientific instruments at the VLT Observatory; (ii) to monitor and upgrade the performance of the CCD Systems in operation at the La Silla Observatory in Chile; (iii) to support an advanced detector development programme in collaboration with industry and other research laboratories to satisfy the future needs for detector systems for ESO instrumentation. The specific tasks of the head of the group are: (i) to organise and supervise the work of approximately seven engineers in Garching and La Silla in the execution of these tasks; (ii) to ensure interaction between the detector group and the optical instrumentation group, the science division and the relevant groups at La Silla and VLT Observatory; (iii) to draw up short and long-term plans, as well as budget proposals, for group activities and strategies with regard to the development and implementation of the detector system.

Location and duration: the position is based at Garching near Munich from which it will be necessary to make at least two-weekly visits to the observation sites in Chile. This is a tenure track position which is normally offered for a period of 3 years. Tenure may be granted during the second term of the contract.

Remuneration: for the post will be commensurate with background, experience and family status. It will be compatible with the salaries paid by intergovernmental organisations. Although preference will be given to nationals of ESO Member States, this should not discourage suitably qualified applicants from other countries from applying. Positions are open to suitably qualified women and men. It is essential that all candidates have an excellent command of English. A knowledge of French or German would be an asset.

Applications with a brief c.v. (no supporting documentation unless requested) should specify the job reference and be submitted before June 30, 1994 to: Personnel Administration and General Services, European Southern Observatory, Karl-Schwarzschild-Straße 2, D-85748 Garching near Munich, Germany. Tel. (89)220.0.6179 or (89)220.6438.

EUROPEAN SOUTHERN OBSERVATORY

THE UNIVERSITY
OF READING

**Professor of Sedimentology**

and

**Director of the Postgraduate Research Institute for Sedimentology**

Applications are invited for the post of Director of the Postgraduate Research Institute for Sedimentology recently vacated by Professor J.R.L. Allen, FRS.

Candidates should be earth scientists with an international reputation in sedimentology in the broad sense, and should be able to provide research leadership and direction across the range of the Institute's activities, particularly as they interact with cognate departments in the Centre for Earth and Atmospheric Sciences.

A Research Fellowship, for five years, funded from the University's Research Endowment Trust, will be established in connection with the Professorship.

Further information may be obtained from the Registrar, Room 213, Whiteknights House, P.O. Box 217, The University, Whiteknights, Reading RG6 2AH. Telephone 44 (0)734 318112, Fax: 44 (0)734 874722. The closing date for applications is 30 April 1994.
RESEARCH ASSISTANT/RESEARCH ASSOCIATE

Tularik is a rapidly growing biopharmaceutical company dedicated to the discovery and development of novel therapeutic products that regulate gene expression. We are actively seeking a Research Assistant/Research Associate in Pharmaceutical Screening to assist in developing biochemical assays and executing high throughput robotic screening in support of our lead discovery and chemical optimization efforts.

This position requires a B.S. or M.S. in Biomedical Science, preferably Biochemistry, with 4-5 years of laboratory experience. The successful candidate should have experience with radioligand and enzymatic assays and must possess Mac and PC skills. Knowledge in the operation and maintenance of bioanalytical instrumentation is also required.

Tularik offers productive and experienced leadership, equity participation, competitive salary and benefits, and a very exciting research environment. For consideration, please submit your CV to: Tularik Inc., Dept. LM, 270 East Grand Avenue, South San Francisco, CA 94080. Tularik is an equal opportunity employer.

RANBAXY, the second largest pharmaceutical company in India, has recently opened a new R&D centre with modern facilities near New Delhi. We are seeking Scientists for the following positions.

Head - New Drug Discovery Research - To direct a team of R&D Scientists to ensure achievement of long term goals. Requires a Ph.D. or M.D. degree with a strong background in biomedical research/chemistry/broad-based experience of new drug discovery research and at least 10 years of experience in progressively responsible positions.

Senior Scientists/Scientists - Must have a Ph.D./M.D. degree in pharmacology/toxicology/biochemistry/microbiology and a strong background in radioreceptor binding and enzyme assays or screening for cardiovascular/anticancer/antimicrobial/neuropsychopharmacological activities of new chemicals or preclinical toxicology/histopathology with 3-5 years of research experience.

Please send your curriculum vitae with names of three referees to Vice President (HR), Ranbaxy Laboratories Ltd., 25 Nehru Place, New Delhi 110019, India. Fax No. (91-11) 6464831/6476288

UPPSALA UNIVERSITY
Division of Education and Research
Our reference: Anneli Henriksnäs

A vacancy is announced for the position

PROFESSOR OF COMPARATIVE MEDICINE
in the Faculty of Medicine
Ref 1380/94

The final decision concerning the appointment to this position will be made by the Vice Chancellor.

Details of the subject field: Comparative medicine embraces such knowledge and activity as can contribute to optimal use, from ethical and scientific aspects, of experimental animals in research. The research should have the aim of increasing the understanding about physical, microbiological, chemical and psychological factors, and also genetic characteristics, of importance for laboratory animal activity. Further objectives in this field include the development of laboratory animal techniques and basic methods of animal experimentation, and the elucidation of medical aspects of comparisons between different animal species.

The successful applicant will be responsible for leadership in the area of animal experimentation, among other duties as head of the experimental animal unit of the university. The position will also involve responsibility for education on a basic level, research education, research activities, the preparation of teaching media, and the development of the subject field.

Requirements: Basic biological education or corresponding competence, wide experience in the field of comparative medicine, and scientific and teaching proficiency (Higher Education Ordinance Chapter 3, Section 2 and Higher Education Ordinance Chapter 4, Section 8). Qualifications considered in the appointment of his position are the degree of scientific, teaching and administrative proficiency, the ability to provide information about research and development work, and personal suitability for the position in other respects, special importance being attached to scientific and teaching skills (Higher Education Ordinance Chapter 4, Sections 14 and 15). The choice of applicant will be based principally on scientific proficiency.

The following should be enclosed with the application:

1. An authenticated summary of qualifications and a list of the scientific publications referred to in the application - in four copies. The applicant should state which 20 papers or other publications are in his or her opinion most important in this context.
2. A brief written account of the applicant's scientific and teaching activity - in four copies. The account should make clear which studies and results and which achievements in general should, in the applicant's opinion, receive greatest consideration with regard to the appointment.
3. Copies of the certificates and other documents referred to - in four copies.
4. Of the scientific publications referred to by the applicant, one copy of the application should include all publications, and three copies of the application should include 20 papers or other publications which in the opinion of the applicant should receive greatest consideration with regard to the appointment. The scientific publications should be divided into four packages, so that these can be distributed directly to the specialist members of the Appointments Board.

The documents specified in points 1-3 above should be submitted before the closing date of the application. The summary of qualifications and the written account of the scientific and teaching activities should be submitted in English. Regarding the documents under point 4 above, before the closing date of the application the candidate should either, submit these documents or, in a separate statement, say which documents he or she intends to submit within three weeks after the closing date.

The Board of the Medical Faculty has produced a list of assessment criteria for teaching qualifications, which can be ordered from the Appointments Board of the Medical Faculty, Uppsala University, Box 256, 751 05 Uppsala, Sweden, tel 18/18 18 85 or 18 18 82.

It is the ambition of Uppsala University to promote equality between men and women by having a more even sex distribution. The majority of the professors in the faculty are men, and the university would therefore be pleased to see women applying for the position.

Information about the position and the subject field may be obtained from professor Uno Erikson, tel 18/664755. Trade-union representatives are Anders Ekholm, Uppland General Practitioners Association (Upplands allmänna läkarförening), tel 18/664631, Anders Grundström, SACO Council (SACO-rådet), tel 18/183380 and Martha Rosén, ST-ATF, tel 18/1819956.

Applications should be submitted to the Vice Chancellor and be sent to Uppsala University, Registrar, Box 256, 751 05 Uppsala, Sweden, or telefaxed (18/182000), by 1994-08-31 at the latest. If the application is sent by telefax or telegram, it should be complemented with the original document as soon as possible.
A tenure-track FACULTY POSITION (rank open) is available in the Department of Molecular Physiology and Biological Physics at the University of Virginia School of Medicine. Applicants will be expected to strengthen its current program in structural biology (atomic force microscopy, electron energy loss spectroscopy, cryoelectron microscopy, electron probe analysis and computer model building) by recruiting an individual with an established reputation and an outstanding peer-reviewed record in protein X-ray crystallography. Preference will be given to individuals engaging in studies on enzymes and other proteins involved in signal transduction and cell motility.

A salary and benefits package commensurate with experience and qualifications will be offered.

Two PDF applications with curriculum vitae and three references to: Lukas K. Tamm, Ph.D., Search Committee Chairperson, Department of Molecular Physiology and Biological Physics at the University of Virginia School of Medicine, 1300 Jefferson Park Avenue, Box 449 Jordan Building, Charlottesville, VA 22908.

The University of Virginia is an Equal Opportunity/Affirmative Action Employer. Qualified female and minority applicants are encouraged to apply. Applications will be accepted until June 30, 1994.

POSTDOCTORAL POSITION available to participate in ongoing research directed at the molecular and cellular analysis of the mdr2 oncogene and its role in the pathogenesis of acute and chronic liver injury. Send summary of research interests, curriculum vitae, and names and telephone numbers of three references to: Dr. Donna George, Department of Genetics, University of Pennsylvania, 401 Curie Boulevard, Philadelphia, PA 19104-6145.

POSTDOCTORAL POSITION available to study the cytoskeletal/membrane complex of red blood cells as related to the pumped transport of Na, K and Ca and a membrane compartmentalized form of ATP. In addition to identifying the cytoskeletal elements that define the different compartments, evaluation of the functional parameters associated with Na,K and Ca transport and the ATP pool is also planned. Please send curriculum vitae and names of three references prior to May 15, 1994, to: Joseph F. Hoffmann, Department of Cellular & Molecular Physiology, Yale University School of Medicine, 333 Cedar Street, New Haven, CT 06520. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available to study the nucleotide binding proteins of the Escherichia coli periplasmic binding protein family. Send curriculum vitae and names and addresses of three references to: Dr. Richard S. Lippincott, Harvard Medical School, Department of Molecular Physiology and Biological Physics, Building 129, Cambridge, MA 02138.

POSTDOCTORAL POSITION available to study the mutagenesis of mammalian intronless genes. Experimental techniques include: DNA recombinant technology, molecular cloning, and DNA sequence analysis. Send curriculum vitae and names and addresses of three references to: Dr. Richard D. Plotkin, Department of Molecular and Human Genetics, University of Texas School of Medicine, 7700 Main Street, Houston, TX 77030.

POSTDOCTORAL POSITION available to study the molecular function of the adhesive glycoprotein, Platelet Derived Growth Factor (PDGF), and its interaction with the platelet-specific and other PDGF receptors. Please send curriculum vitae and names and addresses of three references to: Dr. Jennifer K. Weigel, Department of Microbiology and Molecular Biology, University of California, Davis, One Shields Avenue, Davis, CA 95616.

POSTDOCTORAL POSITION available to study the nucleotide binding proteins of the Escherichia coli periplasmic binding protein family. Send curriculum vitae and names and addresses of three references to: Dr. Richard S. Lippincott, Harvard Medical School, Department of Molecular Physiology and Biological Physics, Building 129, Cambridge, MA 02138.

POSTDOCTORAL POSITION available to study the role of progesterone receptors in the regulation of the differentiation and growth of mammary gland tumor cells. Applications should include a curriculum vitae and names and addresses of three references to: Dr. Kenneth E. St. John, Dept. of Obstetrics, Gynecology and Reproductive Sciences, Columbia University College of Physicians and Surgeons, 630 West 168th Street, New York, NY 10032.
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Research Scientist

You will be responsible for planning, designing and conducting scientific research in specified disciplines including, but not limited to, yeast physiology, fermentation systems and chemical engineering as related to those systems. Specifically, you will utilize your in-depth knowledge to explore alternative ways to successfully create new fermentation systems. To succeed, you will need in-depth knowledge in advanced scientific disciplines such as microbiology, biochemistry, microbial physiology, chemical engineering and related areas that may be directly applied to brewing. The ability to design and conduct experiments is essential. Related advanced college degree helpful, but preference will be given to those with hands on experience.

If you have the ingredients to succeed here, please send your resume for consideration to: Miller Brewing Company, Corporate Staffing, Dept. KB-SM415, 3939 W. Highland Blvd., Milwaukee, WI 53201-0482.

Miller welcomes diversity's potential for excellence, and encourages interest from all candidates. EOE, M/F/D/V.

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ZymoGenetics

Senior Scientist/Associate Director, Analytical Development/QC

ZymoGenetics is a Seattle based biotech company making important strides in the development and chemical evaluation of therapeutic products aimed at tissue repair, coagulation disorders and diabetes.

This position is responsible for the development of analytical methods to be used for biopharmaceutical product characterization, and eventual quality control analysis of preclinical and clinical grade material.

Ph.D. required, with a minimum of 5 years experience in protein chemistry and the development of pharmaceutical biologics. Must demonstrate a strong understanding of analytical method development, both of biologically based, and chromatographic methods of analysis.

ZymoGenetics, a subsidiary of NOVO NORDISK, offers the excitement of a research and development environment characteristic of a small company combined with the scope and stability of a large pharmaceutical corporation through NOVO NORDISK, the world's largest producer of recombinant DNA proteins.

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ZymoGenetics, Inc.
Attn: Human Resources #31R194
4225 Roosevelt Way NE
Seattle WA 98105

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Research

CellPro, Incorporated is an exciting, young biotechnology company focused on developing, manufacturing, and marketing affinity cell separation systems for use in therapeutic, medical research, and diagnostic applications. The opportunity to expand our research projects has created two outstanding opportunities to join our Seattle-area firm.

SCIENTIST

Fetal Cell Isolation and Analysis

The successful candidate will join an existing team pursuing the optimization of cell selection for fetal cells found in maternal blood with the eventual goal of clinical application of the developed procedures. Responsibilities will include providing development of fetal cell isolation and analysis procedures from maternal blood. Other activities will include interacting with our device engineering group in the development of a prototype and with our clinical group to develop clinical trails.

Candidates with a Ph.D. in molecular or cell biology and a minimum of 2 years' postdoctoral experience are encouraged to apply. Previous experience in fluorescent in situ hybridization (FISH) is highly desirable. Excellent communication skills and the ability to work in a collaborative work environment are required.

SCIENTIST

Hematopoetic Gene Therapy/Delivery

The successful candidate will be responsible for using retroviral and non-retroviral methods to target gene transfer into purified stem cell populations. Activities will include optimization of gene transfer into populations of purified cells in vitro with the eventual goal of clinical application of developed procedures.

Candidates with a Ph.D. and a minimum of 2 years' experience in retroviral gene transfer into mammalian, and preferably human cells are encouraged to apply. Experience in the area of hematopoiesis is also highly desirable. Excellent communication skills and the ability to work in a collaborative environment are required.

In addition to our leading technology and the Pacific Northwest lifestyle, CellPro offers competitive salaries and an excellent benefits plan. For immediate consideration, please send your c.v./resume to:

Human Resources
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22322-20th Ave. S.E., Suite #100
Bothell, WA 98021-8446
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Molecular Biophysicist

The Clinical Center, National Institutes of Health, Public Health Service, Bethesda, MD, is seeking a full-time employee to perform research in the use of radiolabeled nucleic acid probes for in vivo applications in cancer treatment and detection. The position is located in the Nuclear Medicine Department.

The Department has an active program in radiopharmaceutical development, radiopharmacy, imaging physics, modeling, and data analysis sciences. Extensive resources are available including: two medical cyclotrons, six radiochemistry hot cells and four chemistry laboratories, three molecular biology laboratories, and computer hardware and software for the generation and analysis of physiological images as well as conventional and SPECT nuclear medicine instruments.

Applications for this position should hold a Ph.D. in biophysics or biochemistry and have had post-doctoral training and experience in nucleic acid chemistry related to understanding higher-order DNA structures and the effects of physical energy deposition on these DNA structures. Research experience in the biochemistry of multistranded DNA structures and molecular mechanisms of homologous recombination is also required. A GS-13 salary ($49,947-$64,928), commensurate with experience, is offered. U.S. citizenship or permanent residency is required for this position.

For more information regarding this position, contact Ronald D. Neumann, M.D., Chief, Nuclear Medicine Department, (301)496-6455, or Anna M. Gerig, Administrative Officer, (301)496-8007. All applications must be received at the Nuclear Medicine Department, 9000 Rockville Pike, Bldg. 10, Room 1C401, Bethesda, MD 20892 within two weeks of the date of this notice. NIH is an Equal Opportunity Employer.

CELLULAR AND MOLECULAR CANCER RESEARCH

The H. Lee Moffitt Cancer Center & Research Institute and the University of South Florida College of Medicine are seeking applicants for Assistant, Associate and Full Professor level individuals to participate in the Cancer Center Research Programs in a stimulating academic environment that includes excellent laboratory and clinical facilities. The individuals sought should hold a Ph.D. or M.D. with postdoctoral training. Candidates must have demonstrated productivity and experience in basic research related to cancer. The successful candidates will be expected to establish a vigorous independent research program in their area of expertise and successfully compete for extramural funding. These positions will be tenure earning. Academic appointments will be in the appropriate department. Salaries and startup funds are competitive.

Send current curriculum vitae, the names, addresses and telephone numbers of three references, to Warren J. Pledger, Ph.D., Associate Director for Basic Research, Office of Faculty Recruitment, Moffitt Cancer Center, 12902 Magnolia Drive, Tampa, Florida 33612. Applicants who need a reasonable accommodation in order to participate in the selection process must notify Jody Swanson in the Office of Faculty Recruitment, (813) 975-7884, forty-eight hours in advance. Applications must be postmarked by deadline of June 16, 1994.

The H. Lee Moffitt Cancer Center & Research Institute is a rapidly growing research facility, adjacent to the Health Sciences Center on the University of South Florida campus in Tampa. The Center includes a 162-bed inpatient and ambulatory cancer facility for children and adults, a 20-bed bone marrow transplantation program, a recently established high volume screening program including a fixed site and a mobile unit.

H. LEE MOFFITT CANCER CENTER & RESEARCH INSTITUTE

University of South Florida College of Medicine

The H. Lee Moffitt Cancer Center and Research Institute is an Equal Opportunity Employer. The University of South Florida is an Equal Opportunity/Equal Access/Affirmative Action Employer.
POSTDOCTORAL POSITION available to examine human granulocyte colony-stimulating factor receptor structure and function in normal and leukemic cells. Experience in molecular biology/cell signaling desirable. Interested candidates should send curriculum vitae and names of three references to: David J. Tweardy, M.D., Department of Pediatrics, The University of Tennessee College of Medicine, University of Tennessee Immunology Research Center, 8471 Parkside Drive, Nashville, TN 37204-2598.

POSTDOCTORAL POSITION available to study local signaling between neurons and astrocytes using in situ and in vivo preparations. (See: Science 263:1768-1771, 1994). Experience in neuronal cell biology, imaging techniques and/or electrophysiology is desirable. Submit curriculum vitae and names of three references to: Alanna Undergaard, M.D., Ph.D., Department of Neurosurgery, Cornell University Medical College, 1300 York Avenue, New York, NY 10021. FAX: (212) 746-8038.

POSTDOCTORAL POSITION DEVELOPMENTAL BIOLOGY

To study mechanisms of cell-specific gene regulation in embryonic lung in large NIH-funded laboratory. Experience with transcription factors, DNA-protein interactions, transgenics preferred. Send or FAX curriculum vitae and names of three references to: Dr. Jerome S. Brody, Pulmonary Center, Boston University School of Medicine, 80 East Concord, Boston, MA 02118. FAX: 617-859-7542.

POSTDOCTORAL POSITION—Molecular Biology

The successful applicant will work with a multidisciplinary team developing micromachined devices for cell isolation, multiparameter amplification and detection. Experience with PCR and new molecular biology techniques is required. Biomedical Engineering experience would be advantageous. This is a three-year appointment with competitive salary and benefits. Please forward curriculum vitae and 3 letters of recommendation to: Peter Wilding, Ph.D., HUP/Department of Pathology, Laboratorv of Molecular Cell Biology, 7103 Footees Building, Philadelphia, PA 19104-4283. The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION to study ecology of endemic scrub lizards in naturally fragmented landscapes of central Florida. Researchers with interests in demography, conservation biology, and/or landscape ecology are especially encouraged to apply. Opportunity to integrate field studies with studies based on molecular genetics and landscape modeling. Send resume, statement of research interests, transcripts, and three letters of recommendation to: Robert E. Feldman, Department of Biology, University of Virginia, Charlottesville, VA 22908. University of Virginia is an Equal Opportunity/Affirmative Action Employer.

CELLULAR PHYSIOLOGIST

POSTDOCTORAL POSITION available to investigate cardiac excitation-contraction (E-C) coupling using patch-clamp, Ca2+ fluorescence imaging, and confocal intravital microscopy techniques to study isolated myocytes and papillary muscles. The effects of membrane lipids on E-C coupling, in conjunction with diabetes and chronic alcohol consumption, is the focus of this research. Please forward curriculum vitae, letters of interest and research experience and names of three references to: Amy J. Daviddoff, Ph.D., Wayne State University, School of Medicine, Detroit, MI 48201. Wayne State University is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT SCIENTIST

POSTDOCTORAL POSITION available in the lab of Dr. Michael Garabedian to study signal transduction via steroid hormone receptors. Experiments will utilize mammalian systems in contradistinction to yeast. Minimum requirements include a Ph.D. in molecular biology or related field. Experience in signal transduction and expertise in steroid hormone receptor biology is desirable. Submit curriculum vitae and names of three references to: Dr. Michael Garabedian Research Center, 48101 North weekends Road, San Antonio, TX 78228-6240. The University of Texas Health Science Center at San Antonio is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIP LINCOLN UNIVERSITY

Two positions are available for research on ceroidlipofuscinoses (Batten’s Disease), inherited fatal neurodegenerative diseases of children and adults. Appointees will work in a well-established group directed by Dr. D. N. Palmer within the Center for Molecular Biology. The appointments are initially for two years and require a Ph.D. or equivalent with experience in biochemistry, cell biology or molecular biology. Applications close 21 May 1994. Further information can be obtained from the Personnel Section, Telephone: 625-3258-2811, extension 8333, FAX: 625-3993. Please submit curriculum vitae, recent photograph, and names of three references to: Dr. M. L. Dubocovich, Department of Pharmacology, Northwestern University Medical School, 303 East Chicago Avenue, Chicago, IL 60611, USA.

POSTDOCTORAL RESEARCH ASSOCIATE MONTANA STATE UNIVERSITY

Available immediately, 2-year minimum, to study the role of copper in antioxidant defense mechanisms in plants. Submit curriculum vitae and names of three references to: Dr. Frederik van Kuijk, Chemistry and Biochemistry Department, Montana State University, Bozeman, MT 59717. ADA Equal Opportunity/Affirmative Action/Non-discrimination.

POSTDOCTORAL RESEARCH ASSOCIATE THE SECTION OF TRANSPLANTATION AT RUSH-PRESBYTERIAN-ST. LUKES MEDICAL CENTER is actively exploring the mechanisms of xenorejection. A position is immediately available to study B-cell responses in xenotransplantation. Submit curriculum vitae and names of three references to: Dr. M. A. R. Weisgraber, Rush-Presbyterian-St. Luke’s Medical Center, 1653 North State Parkway, Chicago, IL 60612; Telephone: 312/942-8472; FAX: 312/942-2867.

POSTDOCTORAL ASSOCIATE POSITION A postdoctoral position in synthetic organic chemistry is available. The research involves the design and synthesis of a variety of novel materials for multidisciplinary neurologic studies in Magnetic Resonance Imaging (MRI) and Positron Emission Tomography (PET) imaging. The successful candidate will possess a strong background in modern chromatographic and spectroscopic techniques and a demonstrated expertise in multistep synthesis for biologically active molecules. Experience in biochemical synthesis or isotopic labeling and molecular modeling is also desirable. The proposed starting date for this position is July 1, 1994. Submit curriculum vitae, reference letters and names of three references to: Dr. R. F. Williams, Ph.D., Research Imaging Group, The University of Texas Health Science Center at San Antonio, 7703 Floyd Curl Drive, San Antonio, TX 78284-6240. The University of Texas Health Science Center is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIPS LINCOLN UNIVERSITY

Two positions are available for research on ceroidlipofuscinoses (Batten’s Disease), inherited fatal neurodegenerative diseases of children and adults. Appointees will work in a well-established group directed by Dr. D. N. Palmer within the Center for Molecular Biology. The appointments are initially for two years and require a Ph.D. or equivalent with experience in biochemistry, cell biology or molecular biology. Applications close 21 May 1994. Further information can be obtained from the Personnel Section, Telephone: 625-3258-2811, extension 8333, FAX: 625-3993. Please submit curriculum vitae, recent photograph, and names of three references to: Dr. M. L. Dubocovich, Department of Pharmacology, Northwestern University Medical School, 303 East Chicago Avenue, Chicago, IL 60611, USA.

POSTDOCTORAL RESEARCH ASSOCIATE MONTANA STATE UNIVERSITY

Available immediately, 2-year minimum, to study the role of copper in antioxidant defense mechanisms in plants. Submit curriculum vitae and names of three references to: Dr. Frederik van Kuijk, Chemistry and Biochemistry Department, Montana State University, Bozeman, MT 59717. ADA Equal Opportunity/Affirmative Action/Non-discrimination.
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PH.D. PHARMACOKINETICS AND DRUG METABOLISM

We are seeking an individual to design and conduct preclinical pharmacokinetic and drug metabolism studies, work on methodologies for new chemical entities and their metabolites in biological fluids and analyze pharmacokinetic and statistical data. Preclinical pharmacokinetics studies will include the development of appropriate animal models for absorption and metabolism studies, using the knowledge of the physicochemical properties of the drugs, allowing the prediction of drug disposition in man. Candidates must have a Ph.D. in Pharmaceutical Sciences with an emphasis on Pharmacokinetics, Biopharmaceutics and/or Drug Metabolism with 0-3 years of post-graduate experience. An excellent understanding of pharmacokinetic and metabolism principles is needed for study design, data interpretation and report writing. Candidates must have experience in bioanalytical methods development using HPLC, GC, TLC and radiometric techniques. Applicants must have experience in the use of pharmacokinetic and statistical software packages to solve kinetic problems. Excellent communication skills (both oral and written) are mandatory. A desire and interest in working “hands-on” in the laboratory is essential.

MOLECULAR BIOLOGY-EXPRESSION

We are seeking individuals with a Master’s degree in the Biological Sciences to join our existing research team involved in the expression of recombinant proteins. Proficiency in routine genetic manipulation techniques including sequencing and site directed mutagenesis is necessary. Qualified candidates will have a minimum of 2 years experience in molecular biology. Experience in the use of expression systems for the production of recombinant proteins is required.

MEDICINAL CHEMISTS-BS/MS/PH.D.

Ideal candidates at the Bachelor’s level will have a degree in synthetic organic chemistry with at least 2 years full-time bench experience and a demonstrated enthusiasm for bench-scale synthetic chemistry, preferably within the pharmaceutical industry. Ph.D. level candidates must also possess a degree in synthetic organic chemistry and experience with a proven record of creative contributions to challenging problems. The desire to apply insights from biology, structural biophysics and computational chemistry to design problems is essential.

X-RAY CRYSTALLOGRAPHY-PH.D./MS

The successful candidate will be involved in all aspects of structure determination from crystalization and data collection to map interpretation and refinement. Experience in molecular replacement techniques for low symmetry crystals with multiple protein copies per asymmetric unit is highly desirable. State-of-the-art facilities are available to support all aspects of the drug development process, including two Rigaku RU200 rotating anode generators with RaxisIIIC image plate systems, a Siemens/Nicolet area detector, and Silicon Graphics 4D/480 and Iris R4000 workstations.

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VERTEX PHARMACEUTICALS, INCORPORATED IS A LEADING STRUCTURE-BASED RATIONAL DRUG DESIGN COMPANY LOCATED IN CAMBRIDGE, MA. WE HAVE AN ESTABLISHED REPUTATION FOR RAPID DISCOVERY AND DEVELOPMENT OF SMALL MOLECULE THERAPEUTICS AND FOR MERGING THESE INITIATIVES WITH ACCELERATED CLINICAL PROGRAMS. OUR UNIQUE COMBINATION OF STATE-OF-THE-ART TECHNOLOGY, FAST-PACED RESEARCH AND DEVELOPMENT AND A TEAM OF THE TOP RESEARCH SCIENTISTS IN INDUSTRY DRIVES OUR SUCCESS AND IS PROVIDING US WITH NOVEL THERAPEUTICS FOR A VARIETY OF DISEASES, INCLUDING HIV INFECTION AND AIDS, AUTOIMMUNE AND HEMOGLOBIN DISORDERS, CANCER AND INFLAMMATION.

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Postdoctoral Opportunities In The Biomedical Sciences.

Listed below are a few of the outstanding opportunities for conducting research that are now available with leading scientists at the National Institutes of Health.

**Molecular Neurobiology and Pharmacology**

**William W. Wetsel, PhD**

The regulation of neuropeptide gene expression, biosynthesis, processing, intracellular trafficking, and secretion are being studied. Particular emphasis is placed upon the signal transduction mechanisms which underlie these cellular events. Applicants should have experience in pharmacology, biochemistry, and molecular biology and have less than five years postdoctoral training. Laboratory of Cellular and Molecular Pharmacology (OE-45), NIEHS, P.O. Box 12233, Building 19-03, Research Triangle Park, NC 27709.

**Neurobiology of Alcohol Consumption**

**Markku Linnola, MD, PhD**

Operant conditioning techniques are being used to assess CNS mechanisms of interindividual differences in alcohol consumption in nonhuman primates. These procedures are used to pharmacologically assess reward, anxiety, and impulse control mechanisms related to alcohol consumption in rhesus macaques with known rearing and genetic backgrounds. Laboratory of Clinical Studies (OE-45), NIAAA, Building 10, Room 3C103.

**Cellular and Molecular Neurophysiology**

**Mark L. Mayer, PhD**

Studies on mammalian glutamate receptor ion channels use patch clamp techniques combined with rapid perfusion to study native and recombinant AMPA, NMDA and kainate receptors. Systems in use include primary cultures, acutely dissociated neurons, HEK293 cells and *Xenopus* oocytes. Applicants should have training in patch-clamp and/or molecular biology techniques and less than five years postdoctoral experience. Laboratory of Cellular and Molecular Neurophysiology (OE-45), NICHD, Building 49, Room 5A78.

**Immunobiology**

**Kelly P. Kearse, PhD**

T cell biology is being studied with particular emphasis on T cell differentiation, extrathymic migration, and developmental regulation of immune receptors. Applicants should have experience in immunology, molecular biology, or biochemistry and have less than five years postdoctoral experience. Experimental Immunology Branch (OE-45), NCI, Building 10, Room 3N105.

**Molecular Endocrinology**

**Sheue-yann Cheng, PhD**

The molecular mechanisms mediating thyroid hormone induced growth, development, and differentiation are being studied with particular emphasis on the interaction of thyroid hormone nuclear receptors with the basal transcriptional factors. The tissue specific factors which regulate the transcriptional activity of the thyroid hormone receptors will also be identified and characterized. A strong background in molecular biology and biochemistry is preferred. Laboratory of Molecular Biology (OE-45), NCI, Building 37, Room 4B09.

**Molecular and Cellular Toxicology**

**Lance R. Pohl, PhD**

The molecular and cellular basis of toxicities caused by reactive metabolites of endogenous molecules and drugs are being examined. Current studies involve the isolation and characterization of cellular targets of toxic reactive metabolites and the elucidation of both immune and non-immune-mediated mechanisms of toxicity caused by chemically altered cellular products. Studies utilize modern techniques of chemistry, biochemistry, immunology, cellular biology, and molecular biology. Applicants should have less than five years of postdoctoral training. Laboratory of Chemical Pharmacology (OE-45), NHLBI, Building 10, Room 8N115.

**Mediators of Airway Inflammation**

**Paul Nettesheim, MD**

The role of lipid mediators and cytokines in airway inflammation/bronchial hyperresponsiveness induced or exacerbated by environmental factors are being investigated. The project is part of a larger clinical research effort to study the role of environmental factors in human asthma and it is conducted in collaboration with area medical schools. Applicants should have training in molecular biology and/or lipid biochemistry and less than five years of postdoctoral experience. Laboratory of Pulmonary Pathobiology (OE-45), NIEHS, P.O. Box 12233, Mail Drop D2-01, Research Triangle Park, NC 27709.

**Additional Postdoctoral Fellowship Opportunities**

For an on-line listing of additional postdoctoral openings you may access the NIH EDNET Bulletin Board's POSTDOC conference by Internet (wyler.cu.nih.gov) or via modem (1,3014022221 or 1,8003582221) with modem parameters set at “7, Even, 1”.

When connected to NIH, type in “.v100” for terminal emulation, “F5E” for initial, and “AJLI” for account number.

The Postdoctoral Research Fellowship Opportunities catalog, which describes additional opportunities at the NIH, may be requested from the address below. An electronic version of the catalog may be accessed via the network-based (Internet) Gopher Information System. To access the NIH Gopher server, Gopher client software (available via anonymous ftp “boombox.micro.umn.edu”) must be running on your computer and configured to point to “gopher.nih.gov” and port “70”. Select Grants and Research Information to reveal the NIH Office of Education directory. Those interested in receiving information on other postdoctoral opportunities, clinical training opportunities, or accessing Gopher may contact the Office of Education, Building 10, Room IC129. Phone: 301-496-2427.

**To Apply**

If you hold a graduate or professional degree (e.g., PhD, MD/PhD) or a professional degree (e.g., MD, DO, DDS, or DVM) accompanied by previous laboratory research experience, and would like to be considered for one of these positions, please send a cover letter, *curriculum vitae*, bibliography, and statement of research interests to the address listed with each position. In addition, please arrange to have letters of recommendation sent from three scientists who can provide an evaluation of your qualifications.
FACULTY POSITION
DEPARTMENT OF PHARMACOLOGY
AND TOXICOLOGY
UNIVERSITY OF UTAH

Applications are invited for a tenure-track position in the Department of Pharmacology and Toxicology at the Assistant Professor level. Applicants must have a doctoral degree, significant postdoctoral research experience, and demonstrated ability to be productive in an academic setting; salary will be commensurate with experience. Current areas of strength in the department include neuropharmacology, neurotoxicology, human and biochemical toxicology, drug metabolism, cardiovascular pharmacology, molecular pharmacology and molecular biology. We are seeking a candidate who either has expertise in one of these fields or can augment the department’s areas of expertise. Successful applicants will be expected to develop a strong, independent research program with external funding as well as participate in teaching at both graduate and professional levels. The department particularly encourages applications from women and minorities for this position.

Candidates should submit a letter of application, a brief statement of research objectives, curriculum vitae, and at least three letters of recommendation. Please submit responses to Douglas E. Rollins, M.D., Ph.D., Search Committee Chair, Department of Pharmacology and Toxicology, 112 Skaggs Hall, University of Utah, Salt Lake City, UT 84112. (801) 581-5117. Applications should be submitted by July 1, 1994, but later applications may be considered if no suitable candidates have been identified by the deadline. The University of Utah is an Equal Opportunity/Affirmative Action Employer.

Hall Family Foundation
Distinguished Professorship
In Molecular Medicine

The University of Kansas Medical Center seeks to recruit a distinguished physician/scientist with national and international reputation and achievements in molecular medicine. The professorship is established in partnership with the Hall Family Foundation which will endow the salary and expenses of the successful candidate. We seek an internationally recognized physician/scientist with a clear history of productive, innovative, and progressive clinical and research achievement in the field of molecular medicine. The successful candidate will establish a basic science and clinical program in molecular medicine at the University of Kansas School of Medicine. The individual will be allocated research space in a new research building slated for completion in Summer, 1994. The incumbent will have interactions with 350 full-time faculty members at the University of Kansas School of Medicine who have extensive research centers in cancer, aging, neuroscience, environmental health, mental retardation and reproductive biology. The environment will provide the candidates with rich opportunities for clinical applications of molecular medicine and continuation of basic research in molecular biology. This appointment will be at the full professor level with tenure in either a clinical or basic science department. Applications from interested individuals or nominations of suitable individuals are invited. Please contact: Daniel Hollander, M.D., Executive Dean, School of Medicine, University of Kansas Medical Center, Kansas City, KS 66160-7300. The University of Kansas is an Equal Opportunity/Affirmative Action employer.

Chair, Department of Biochemistry and Biophysics
School of Medicine
University of North Carolina
at Chapel Hill

The School of Medicine of the University of North Carolina at Chapel Hill seeks an individual to provide scholarly, academic and administrative leadership for the research and teaching programs in the Department of Biochemistry and Biophysics. The department has excellent facilities and strong collaborative relationships with other departments, research centers and programs within the University. Other academic and industrial institutions in the Research Triangle enhance the scientific environment. Minimum qualifications include a Ph.D. and/or M.D. degree, a distinguished record of creative scientific productivity and a commitment to graduate and medical education. Review of applications will begin on June 27, 1994 and continue until the position is filled. Reply with a letter of interest, curriculum vitae and the names/addresses/phone numbers of three or more references to Stanley C. Froehner, Ph.D., Chair of Biochemistry and Biophysics Search Committee, c/o Office of the Dean, School of Medicine, CB# 7000 MacNider Hall, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina 27599-7000 (Attention: L.J. Murphy). AA/EOE. Women and members of minority groups are encouraged to apply.
Assistant Professor to Associate Professor in Marine Biology

The University of Guam Marine Laboratory invites applications for a ten-month position available for the academic year beginning August 1994. Preference will be given to individuals with strong marine biology research experience and a Ph.D. or M.D. degree. Candidates who are interested in immunology and molecular biology research should send curriculum vitae, copies of selected publications, and three letters of recommendation to: The Chair, Search Committee, Department of Biological Science, University of Guam, P.O. Box 30010, Mangilao, Guam 96925, USA. An Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

Assistant/Associate Professor: Tenure-Track Position in Physical Therapy

The University of Kentucky College of Medicine, Department of Physical Therapy, is seeking candidates for a tenure-track position available for the academic year beginning August 1994. Ph.D. or M.D. degree and postdoctoral experience are required. The candidate should have a strong research record and be committed to teaching physical therapist students. Responsibilities include teaching in the entry-level program and at the graduate level. Applications are encouraged from women, minorities, and individuals with disabilities. For further information contact: Dr. Carl J. Birkeland, University of Kentucky, College of Medicine, Department of Physical Therapy, 701 South Limestone, Lexington, KY 40536-3008. EOE.

Assistant/Associate Professor in Pharmacology

The University of Kentucky College of Medicine invites applications for a tenure-track position available August 1994. The position will be at the Assistant or Associate Professor level. Candidates will be expected to maintain a strong research program in an area of their expertise, which includes pharmacology, immunology, molecular biology, endocrinology, development, or related areas. The successful candidate will be expected to teach at the graduate level. Applications from women, minorities, and individuals with disabilities are encouraged. For further information contact: Dr. P. T. Shores, University of Kentucky, College of Medicine, Department of Pharmacology, 701 South Limestone, Lexington, KY 40536-3008. EOE.
Announcing the 2nd Annual BS/MS Careers Issue
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POSTDOCTORAL RESEARCH SCIENTIST

POSITION

Available after May 1994 at the Whitney Lab, St. Augustine, Florida, to conduct studies of the bioavailability and biotransformation of benzo(a)pyrene and metabolites. Ph.D. in Analytical Chemistry, Toxicology or a related area required. Please send curriculum vitae and the names of 3 references to: Dr. M. O. Jnjees, Department of Medical Chemistry, P.O. Box 100485, University of Florida, Gainesville, FL 32610. Equal Opportunity Employer.

RESEARCH SCIENTIST:

DEEP-SEA BENTHIC BIOLOGIST

The Life Sciences Division of the Monterey Bay Aquar-ium announces an opening for a RESEARCH SCIENCE- TIST to conduct basic research on the benthic benthic organisms, and to contribute to the aquarium's live exhibit and educational programs. Position is available in November 1994. Research interests should take advantage of the aquarium's extensive facilities for holding captive marine organisms, access to the nearby Monterey Submarine Canyon, and close intellectual ties with neighboring scientific institutions. Scholarship publication of research findings, par-ticipation in aquarium educational and husbandry research and development programs is expected. Requires a Ph.D. and postdoctoral experience. Send letter of application, statement of professional interests, references and names of at least 3 references to: Research Scientist, Human Re-so-urces Division, Monterey Bay Aquarium, 886 Cannery Row, Monterey, CA 93943. Deadline for applications is 5:00 p.m. May 20, 1994. Equal Opportunity Employer.

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Wanted qualified degree holders for a growing Biotechnology company.

(1) Position available for motivated individual to be responsible for peptide purification and quality control. Demonstrated experience in HPLC peptide separation, AAA (Amino Acid Analysis), mass spectroscopy.

(2) Position for a Molecular Biologist, with demonstrated experience in algorithms, gene assembly, DNA sequencing, PCR techniques and DNA hybridization methods.

Please send curriculum vitae and references to: Miguel Castro, Bio-Synthesis, Inc., P.O. Box 1202, Lewisville, TX 75067.

ELECTRON MICROSCOPE RESEARCH TECHNICIAN—Applicant will assist in experimental studies of various biological systems. B.S./B.A. or M.S. with experience in routine electron microscope procedures, ultramicrotomy, immunogold labeling, and darkroom work is required. Additional experience with immunofluorescence and computerized microscopy is desirable. Applicants should send curriculum vitae and names of at least three references to: Dr. Scott Henderson, Director of Microscopy, Department of Cell Biology and Anatomy, Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029–6574. An Equal Opportunity Employer; women and minorities are encouraged to apply.

VACUUM SCIENTIST at Laboratory of Nuclear Studies, Cornell University, to join the Vacuum Group responsible for vacuum systems of particle accelerators, consisting of the CESR electron–positron storage ring and injectors consisting of a Synchrotron and Linac. CESR's ultra high vacuum system is being upgraded, presenting a considerable challenge and an opportunity to participate in design and fabrication of a system using innovative UHV concepts.

A Master's degree with experience in vacuum science is required. Experience with accelerator or other large vacuum systems is highly desirable. A complete job description will be provided on request.

Interested candidates should contact: Chairman, Accelerator Physics Search Committee, c/o search@med2.in, Cornell University, Ithaca, NY 14853–5001. Cornell University is an Affirmative Action/Equal Opportunity Employer.

ASSOCIATE RESEARCH SCIENTIST

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MEETINGS

19TH INTERNATIONAL HERPESVIRUS WORKSHOP

JULY 30–AUGUST 5, 1994

UNIVERSITY OF BRITISH COLUMBIA

The 19th International Herpesvirus workshop will bring together researchers with interests in basic, medical, and veterinary herpesvirus research. Posters will be an important part of the 19th Workshop and will be displayed for the entire meeting. A partial list of the topics includes: Virus entry, Gene regulation, DNA replication, Antiviral agents and resistance, Enzymes, Epidemiology, Pathogenesis, Gene therapy, Immunology, Transformation, and Virus assembly. The abstract deadline is May 2, 1994.

For more information, please contact: Dr. Frank Tufaro, 19th International Herpesvirus Workshop c/o Venue West, 645-375 Water Street, Vancouver, B.C. V6B SC6.

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