The data for each sample can be summarized with rose diagrams, circular histograms, linear histograms, and raw data points. Kovach Computing Services. Circle 144.

DNA Polymerase
TaKaRa Ex Taq DNA polymerase combines the proven performance of TaKaRa Taq DNA polymerase with an efficient 3' to 5' exonuclease activity for unsurpassed polymerase chain reaction (PCR) performance. TaKaRa Ex Taq produces PCR products of higher fidelity than other DNA polymerases with greater amplification yields, according to the manufacturer. The product provides PCR amplification of DNA ranging from 0.1 to 10 kb, with up to 20 kb possible. Pan Vera. Circle 145.

Cover Slip Clamp Chamber
The Cover Slip Clamp Chamber MS-502 permits glass cover slips to be incorporated into the bottom portion of a delron ring to form a dish. Cells can be cultured on glass cover slips and then inserted into the chamber. The MS-502 is reusable, autoclavable, and easy to assemble. It fits into most microincubator systems that make use of 35-mm petri dishes. Excellent visibility is obtained for use with a host of microscopy and imaging techniques including oil immersion objectives. When the cover glass is inserted, a small chamber is created that can be used as a mini-perfusion chamber if larger volumes are not required. Adams and List Associates. Circle 146.

Bad Antibody?
StatLIA® immunoassay software immediately tells you if your antibody is bad. Really. Along with your tracer, buffer, incubation conditions ... or any of the 9 components.

Plus, with StatLIA you can:
• Immediately pinpoint the cause of a flagged assay without repeating it
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• Detect fluctuations in standard curves and their causes
• Maintain data consistency for long-term research

Find out why StatLIA is now used by major research, pharmaceutical, clinical and government laboratories throughout North America.

Call 1-800-824-8842 for a free demo disk.

Literature
Filters is a six-page brochure with a full line of chromatography filter products including disposable syringe filters for general clarification of high-performance liquid chromatography samples, unique tip syringe filters for micro volume sample filtration, vacuum mobile phase filtration apparatus, and more. Phenomenex. Circle 147.

Catalogue 1995 covers products in the categories of nucleic acid labeling and detection; protein studies; cloning, gene expression, and polymerase chain reaction; sequencing; in situ hybridization; membranes; autoradiography; enzymes; radiochemicals; cellular communication assays; and more. Amersham Life Science. Circle 148.

Dionex PD40 Diode Array Detector describes how this detector can improve productivity of high-performance liquid chromatography. Dionex. Circle 149.

Separation Sciences is a 2-page brochure on special applications in thin-layer chromatography, gas chromatography, and high-performance liquid chromatography. Macherey-Nagel/Accurate Chemical and Scientific. Circle 150.
POSITIONS OPEN

UNIVERSITY OF NORTH CAROLINA
SCHOOL OF DENTISTRY
Department of Diagnostic Sciences
Tenure-Track Assistant Professor

The University of North Carolina at Chapel Hill School of Dentistry is recruiting for a full-time, tenure-track ASSISTANT PROFESSOR with primary responsibilities for teaching oral medicine and for establishing an independent research program. Preferred qualifications include a dental degree and experience in viral virulence mechanisms at the cellular and molecular level, in particular relating to innate immunity, and influence on and evasion of the host response. The academic appointment for this position is in the Department of Diagnostic Sciences, with relevant teaching and clinical responsibilities. Applicants should have a Ph.D. in molecular biology or related area in addition to a D.D.S. or D.M.D., minimum of two years of postdoctoral training and extensive experience with molecular and cell biology. The successful candidate will be a member of the UNC Dental Research Center (DRC) and will also serve as graduate faculty in the newly established Oral Biology Ph.D. Program. Evidence of a commitment to research and scholarship is required, with the expectation that this individual will establish independent research with strong potential to compete successfully for extramural research funding. Active research collaborations with the DRC's Host-Pathogens Interaction group will be expected. The School of Dentistry has a major commitment to fostering a supportive research environment for the development of independent research endeavors by junior faculty. The deadline for applications is June 30, 1995. Please send curriculum vitae and four letters of recommendation to: Roland R. Arnold, Ph.D., Assistant Dean, Research, and Director, Dental Research Center, CB No. 7455, University of North Carolina, Chapel Hill, NC 27599-7455. As an Equal Opportunity/Affirmative Action Employer, the University is committed to equality of education and employment opportunities and actively seeks to recruit and retain applicants of diverse background. Women and minorities are encouraged to identify themselves.

FACULTY POSITIONS
DIVISION OF PHARMACEUTICS
University of North Carolina at Chapel Hill

The Division of Pharmaceutics invites applications for two full-time, tenure-track faculty positions at the ASSISTANT or ASSOCIATE PROFESSOR level. Applicants must have a Ph.D. degree in Pharmaceutics or a related discipline. Preference will be given to applicants with postdoctoral experience. Applicants who are expected to develop and maintain an independent, externally funded research program in (1) pharmacokinetics, or (2) targeted drug delivery or pharmaceutical biotechnology, and to participate in professional activities and service. Applicants should send a curriculum vitae, three letters of reference, and a statement of their research interests to: Gary M. Pollack, Ph.D., Division of Pharmaceutics, School of Pharmacy, Beard Hall, CB No. 7360, The University of North Carolina at Chapel Hill, Chapel Hill, NC 27599-7360. Application review will continue until suitable candidates are identified. Women and minorities are encouraged to identify themselves voluntarily. The University of North Carolina at Chapel Hill is an Equal Opportunity/Affirmative Action Employer.

TRANSPLANTATION IMMUNOLOGY
University of North Carolina, Medical Center

The Department of Pathology and Immunology is seeking to fill multiple ASSISTANT or ASSOCIATE PROFESSOR positions with expertise in molecular and cellular immunology. The primary responsibility will be interactive, original research designed to conduct postdoctoral students. It is expected that this individual will collaborate with clinical investigators in studies on solid organ and bone marrow transplantation. Preferred qualifications include a doctorate degree in immunology or related field, at least two years of successful postdoctoral research and demonstrate independent research and funding. Curriculum vitae, letter and three references to: James E. Talmadge, Ph.D., Department of Pathology, UNCMM, 601 South 42nd Street, Bldg. 66, Chapel Hill, NC 27516-7100. An Equal Opportunity/Affirmative Action Employer.

FACULTY POSITIONS
NEUROBIOLOGY AND/OR CELL BIOLOGY

The Department of Anatomy of the University of Western Ontario invites applications for two tenure-track positions at the rank of ASSISTANT PROFESSOR to commence in 1995 or 1996. A strong research background in neurobiology and/or cell biology is required. Applicants should be well trained in the use of molecular and cellular methods and have expertise in interaction and/or development and growth. Minimum requirements include a Ph.D., two years of postdoctoral training, a strong record of research activity, and the potential to develop an independent research program. The successful candidate must have an excellent publication record and be able to compete successfully for research funding and external awards. The successful candidate will be appointed in the Department of Anatomy, Health Sciences Centre, University of Western Ontario, London, Ontario N6A 5C1 Canada. In accordance with Canadian immigration requirements, this advertisement is directed initially to Canadian citizens and permanent residents of Canada. The University of Western Ontario is committed to employment equity and encourages applications from all qualified individuals, including women, members of visible minorities, Aboriginal persons, and persons with disabilities.

MOLECULAR NEUROSCIENCE

The newly charted Center for Investigative Neurosciences at The Bowman Gray School of Medicine invites applications for a TENURE-TRACK FACULTY position in molecular neuroscience. We seek an outstanding scientist with a background in molecular biology who is committed to developing a vigorous research program related to neuronal mechanisms of adaptation, degeneration, and regeneration. The individual would be joining an active group of neuroscientists at a time when transmitter and signal transduction mechanisms to enzymatic analysis of neuronal firing in behaving animals. As an interdisciplinary unit, the Neuroscience Center has as its mission the integration and coordination of basic and clinical research efforts at The Bowman Gray School of Medicine. Members of the Center hold joint appointments in the Center and in one or more basic science or clinical departments. Please send curriculum vitae, a statement of research interests, two recent repre- sentative publications and the names of three references to: Dr. Donald Woodward, Director, Center for Investigative Neuroscience, Bowman Gray School of Medicine, W. K. Forest Lane, Winston-Salem, NC 27157-1010. Affirmative Action/Equal Opportunity Employer.

THEORETICAL EVOLUTIONARY BIOLOGIST

Harvard University invites applications from theoretical biologists whose research addresses mathematical theories of population genetics, molecular evolution, or phylogenetic inference. The appointment will be in the Department of Organismic and Evolutionary Biology and may be at the level of either ASSISTANT PROFESSOR, ASSOCIATE PROFESSOR, or TENURED PROFESSOR according to the qualifications of the chosen candidate. Prior to August 1, 1995, applicants should submit a curriculum vitae, a statement of research interests and teaching experiences, and three letters of recommendation to: Professor Daniel L. Hartl, Chairman, Theoretical Biology Search Committee, Department of Organismic and Evolutionary Biology, Harvard University, 12 Oxford Street, Cambridge, MA 02138. Harvard University is an Affirmative Action/Equal Opportunity Employer. We encourage applications from women and minority candidates.

NMR FACILITIES DIRECTOR

Montana State University-Bozeman seeks DIRECTOR OF NMR FACILITIES. This position includes NMR capabilities, ensure optimal performance of the NMR instruments, and be responsible for maintenance of the instruments. An ACS Certified Chemist with a Ph.D. in NMR or closely related field is required. Applications should include a detailed CV and a letter of interest. Send applications to: Professor W.A. Yost, Chair, Department of Chemistry, Montana State University, Bozeman, MT 59717. Fax: 406-994-5407; Email: achjb@earth.oscs.montana.edu. ADA/ Equal Opportunity/Affirmative Action/Veteran Preference.
Listed below are some of the outstanding research training opportunities that are currently available at the National Institutes of Health.

**Biocchemistry of ATP-dependent Proteases**

Michael R. Maurizi, PhD

Two positions are available for recent graduates interested in studying the molecular basis of protein unfolding and degradation by the ATP-dependent Lon and Clp proteases from E. coli and human cells. Research includes biophysical and biochemical techniques as well as genetic and molecular biological approaches to study structure-function relationships. Candidates with backgrounds in physical biochemistry or molecular biology are encouraged to apply. Laboratory of Cell Biology (OE-76), NCTR, Building 3, Room 1907; 37 CONVENT DR MSC 4255, BETHESDA MD 20892-4255.

**Eukaryotic Transcription/TFIID**

Yoshihiro Nakatani, PhD

The group is focused on the mechanisms of how DNA-binding transcriptional activators communicate with RNA polymerase II transcription machinery to regulate messenger RNA synthesis, with emphasis on the role of TBP-associated factors (TAFs) and other coactivators*. A strong background in molecular biology and/or protein chemistry and/or yeast genetics is required. Laboratory of Molecular Growth Regulation (OE-76), NICH, Building 6, Room 416, 6 CENTER DR MSC 2753, BETHESDA MD 20892-2753.


**Immunology**

Kathryn E. Stein, PhD

Antigen processing and presentation of polysaccharide-protein conjugate vaccines are being investigated. Emphasis will be placed on differences between thymus independent and thymus dependent immunization for polysaccharides antigens. Experience in working with cell fractionation and lysosomes/endosomes is desirable. Applicants must have less than five years postdoctoral experience. Laboratory of Molecular and Developmental Immunology, Division of Monoclonal Antibodies (OE-76), FDA/CBER, Building 29B, Room 5E08, 1401 Rockville Pike, Rockville, MD 20852-1448.

**Molecular Hematology**

Graham P. Rodgers, MD

Molecular analysis of the transcriptional regulation of fetal and adult globin genes in cultured erythroid cells and transgenic animals is being studied. The work focuses on the effects of specific drugs on the activation of gene transcription and DNA binding proteins which interact with specific regulatory elements in globin and other relevant genes. Applicants must have a strong background in molecular and cellular biology and have at least three years of postdoctoral experience. Laboratory of Chemical Biology (OE-76), NIDDK, Building 10, Room 9N318, 10 CENTER DR MSC 1822, BETHESDA MD 20892-1822.

**Neurotoxicology and Neuroimmunopathology**

Melvyn P. Heyes, PhD

A biologist position is available to investigate the functional and clinical significance of the accumulations of the neurotoxin, quinolinic acid, in CNS immune activation, including AIDS, infectious diseases and autoimmune conditions. Applicants should have experience in the quantitative evaluation of neuropathologic and/or functional responses to immune or excitotoxin-mediated CNS damage, as well as experience with the use of in vivo animal models of inflammatory neurologic diseases and have less than five years of postdoctoral experience. Laboratory of Clinical Science (OE-76), NIH, Building 10, Room 3D40, 10 CENTER DR MSC 1261, BETHESDA MD 20892-1262.

**Reproductive Biology and Toxicology**

Masahiko Negishi, PhD

The molecular events underlying the abnormal development of the reproductive system associated with exposure to xenobiotic estrogens such as diethylstilbestrol (DES) are being investigated. Of particular interest is the biochemical and molecular analysis of transient and permanent alterations in the estrogen-responsive (e.g., lactoferrin) and -metabolizing (e.g., sulfotransferase) genes and the implications for human health. Laboratory of Reproductive and Developmental Toxicology (OE-76), NIEHS, P.O. Box 12233, MD B3-02, Research Triangle Park, NC 27709.

**Viral Vaccines**

Judy A. Beerer, MD

Areas of investigation include mechanisms by which viral envelope glycoproteins mediate cell fusion. Candidates should be experienced with gene cloning, mammalian cell expression systems and protein biochemistry. Applicants must have less than five years of postdoctoral experience. Laboratory of Respiratory Viruses (OE-76), FDA/CBER, Division of Viral Products (HFM 463), 1401 Rockville Pike, Rockville, MD 20852-1448.

**Additional Postdoctoral Fellowship Opportunities**

For an on-line listing of additional postdoctoral openings, you may access the NIH EDNET Bulletin Board POSTDOC conference via Internet (wylbur.ni.nih.gov) or modem (1,301-402-2221 or 1,800-358-2221) with parameters set at "7,Even,1". When connected to NIH, type in ",vrl100" for terminal emulation, ",FSE" for initials, and ",ALL1" for account number.

The Postdoctoral Research Fellowship Opportunities catalog, which describes intramural laboratories at the NIH, is also available by request. An electronic version of the catalog may be accessed via the Internet using either the Gopher Information System (gopher.nih.gov) or the World Wide Web (http://www.nih.gov). When connected, select Research Opportunities at the NIH. If you would like to request a catalog or have further questions, please contact the NIH Office of Education, Building 10, Room 1D129, 10 CENTER DR MSC 1158, BETHESDA MD 20892-1158, 301-402-1603, Fax 301-402-0483.

**To Apply**

If you hold a doctoral degree (e.g., PhD, MD/PhD, MD, DO, DDS, DMD 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.

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**National Institutes Of Health**

Office Of Education
The NIH is an Equal Opportunity Employer
**POSITIONS OPEN**

**ASSISTANT PROFESSOR OF PHYSIOLOGY**

The Department of Physiology, Midwestern University invites applications for a tenure-track faculty position at the level of ASSISTANT PROFESSOR. Candidates must have completed post-doctoral experience, and demonstrate the potential to develop an independent research program capable of attracting extramural funds. Research interests include: (1) neurodevelopmental disorders; (2) molecular and cellular mechanisms underlying normal and pathological sleep; (3) neuroimmunology and host defense; (4) neuromuscular disorders; and (5) functional neurotransmission in the CNS. Interested applicants should submit their curriculum vitae, a synopsis of research interests, preliminary data, and names and addresses of three references to: Dr. Dennis J. Paulson, Ph.D., Chairman, Department of Physiology, Midwestern University, 555 31st Street, Downers Grove, IL 60515. Equal Opportunity/Men’s/Women’s/Disabled.

**DIRECTOR OF MEDICAL RESEARCH**

Applications are invited for the position of SCIENTIFIC DIRECTOR of the Lawson Research Institute (LRI) and VICE-PRESIDENT RESEARCH at St. Joseph’s Health Centre, London, Ontario, Canada. The LRI has earned international recognition for its chosen areas of research and has a large base of extramural support. The position offers interaction with outstanding researchers in the following areas: (1) maternal, fetal and newborn health; (2) medical diagnostic devices and systems; (3) hormones and cell regulation; (4) gerontology; and (5) clinical and outcomes research. Individuals with interests in these areas or in other related areas of medical and health science are encouraged to apply. An appointment will be offered in an appropriate department(s) of the University of Western Ontario. Salary and start-up funds are negotiable. The deadline for receipt of applications is May 1995. Applications should be addressed to: Mr. P. Maurice, Chair, LRI Board, c/o Room F143, St. Joseph’s Health Centre, 268 Grosvenor Street, London, Ontario N6A 5A5. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents. St. Joseph’s Health Centre is an Equal Opportunity Employer.

**POSTDOCTORAL POSITIONS**

**PLANT CELL BIOLOGY**

University of Lausanne

A three-year POSTDOCTORAL POSITION is available immediately to work on the signal transduction recently cloned in Arabidopsis. The project involves the use of immunocytochemical localization, mRNA in situ hybridization, and expression of transgenes in transgenic plants and heterologous systems, such as yeast and Xenopus oocytes. Applicants with experience in microscopy and molecular biology are encouraged to apply. Send curriculum vitae and the name of three references to: Dr. Yves Poitier, Institut de Biologie et Physiologie Vétérinares, Université de Lausanne, CH-1015 Lausanne, Switzerland. Email: Y.Poitier@ulys.unil.ch.

**POSITIONS OPEN**

**RESEARCH VETERINARIAN**

Research Veterinary MEDICAL OFFICER, GS-12/13 ($42,641 to $50,706 per annum), USDA, Agricultural Research Service (ARS), Southeast Poultry Research Laboratory, Athens, Georgia. Applicants must be qualified to develop embryo-transgenic chickens, and must have: (1) a Ph.D. in molecular biology or molecular genetics, (2) demonstrated ability to develop new technology, and (3) a strong publication record. Research interests include structural and functional characterization of avian visna virus. Send letter of interest, curriculum vitae, and names of three references to: Dr. Dennis J. Paulson, Ph.D., Chairman, Department of Physiology, Midwestern University, 555 31st Street, Downers Grove, IL 60515. Equal Opportunity Employer.

**UNIVERSITY OF PENNSYLVANIA SCHOOL OF MEDICINE**

**POSTDOCTORAL POSITION**

Immunology

Two positions available immediately for research on Th1 and Th2 cell interactions. Experience with T lymphocytes and cytokines required. Send curriculum vitae, and summary of research interests to: Drs. Thomas W. Mak and Steven J. Rosenberg, Division of Microbiology and Immunology, University of Pennsylvania School of Medicine, Philadelphia, PA 19104. Equal Opportunity/Affirmative Action Employer. Women are encouraged to apply.

**PROTEIN BIOCHEMIST/ENZYMOLoGY**

A two-year POSTDOCTORAL FELLOWSHIP position is available (salary, $26,000 per year) at the University of California at Davis in the Section of Clinical Biochemistry in the Department of Pathology, University of California, 4500 Overlook Drive, Davis, California. Applications are invited from individuals who are interested in working on projects related to the metabolism and function of glycoproteins. The position is available immediately. Applicants should submit a letter of interest, curriculum vitae, and the names of three references to: Dr. D. J. Paulson, Ph.D., Chairman, Department of Physiology, Midwestern University, 555 31st Street, Downers Grove, IL 60515. Equal Opportunity Employer.

**UNIVERSITY OF PENNSYLVANIA SCHOOL OF MEDICINE**

**POSTDOCTORAL POSITION**

Immunology/Immunogenetics

Two postdoctoral positions available immediately for investigation of the role of Th1 and Th2 cytokines in autoimmune disease. Send curriculum vitae, and summary of research interests to: Drs. I. S. London, D. J. Schwartzman, Dartmouth Medical School, Department of Immunology, Hanover, NH 03755. Equal Opportunity/Affirmative Action Employer. Women are encouraged to apply.

**CELL BIOLOGY/IMMUNOLOGY**

University of Pennsylvania School of Medicine

Two positions available immediately for research on specific cell interactions. Send curriculum vitae, and summary of research interests to: Drs. L. H. Kasper and J. D. Shlomchik, Department of Immunology, University of Pennsylvania School of Medicine, Philadelphia, PA 19104. Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL RESEARCH SCIENTIST**

Two-year position available July 1, 1995, for a Marine Chemist or Geochimist to study the sediment geochemistry, paleoceanography and palaeoclimatological impact of global ocean nutrient cycles (N, P, Si). Applicants must have a recent Ph.D. in Chemical Oceanography or a related discipline with a background in stable isotope, trace element and/or nutrient geochemistry. Send resume, statement of research interests, and names and addresses of references to: Dr. Robert G. Berner, Chairman, School of Earth and Atmospheric Sciences, Georgia Institute of Technology, Atlanta, GA 30332-0340. An Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITIONS**

**Molecular Neurobiology**

The Neurogenetics of Host Cell Interactions Laboratory, Department of Neurology, JHU, 600 North Wolfe Street-210, Baltimore, MD 21287. Equal Opportunity/Affirmative Action Employer. Women are encouraged to apply.
Pioneering Research Doesn’t Happen Overnight.

Abbott Laboratories knows what it takes to bring innovative health care products to market. For over a century, we’ve been setting new standards in R&D spending, and providing our scientists with unparalleled support. Now, you could join us as a research scientist, and play a major role in developing tomorrow’s health care technologies.

IMMUNOLOGIST/BIOCHEMIST

You will work on the discovery of anti-inflammatory and immunosuppressant drugs.

The chosen candidate will possess a PhD in a biological science — preferably immunology or biochemistry — and 2-4 years of post-doctoral experience. Research experience in cellular activation and signal transduction mechanisms is essential. Experience in assay development for drug discovery in the pharmaceutical industry is a plus.

Abbott provides an excellent salary and benefits package, including profit sharing and a stock retirement plan. We are located in the fastest growing county in Illinois - about 30 miles north of Chicago. For confidential consideration, please send your resume with salary history to: Alison Burke, Job #80281, Abbott Laboratories, D583, AP/6B, 100 Abbott Park Rd., Abbott Park, IL 60064. Abbott is an Affirmative Action Employer/Smoke-Free Environment.

Research Associate

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

PHARMACEUTICS/DRUG DELIVERY

We currently seek a highly motivated, enthusiastic individual to participate in the development of polymeric drug delivery systems for protein drugs. Candidates must have a BS or MS in Science, Engineering, or Pharmaceutics and at least 2 years’ experience in polymers and drug delivery. Knowledge of basic protein chemistry and drug-polymer interactions is preferred.

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 mail your resume/c.v. to: Amgen Inc., Staffing, Job Code: OXP-SC-2401, Amgen Center, Thousand Oaks, CA 91320-1789. Principals only, please. For information on other research opportunities available at Amgen, please call 1-800-446-4007. EEO-Affirmative Action Employer M/F/D/V. We recognize that diverse perspectives are a key factor in the process of discovery.
ALANEX Corporation

ALANEX Corporation is a rapidly growing San Diego based drug discovery company dedicated to developing novel drugs for the treatment of metabolic and cardiovascular disorders. We currently have an opening in our Pharmacology Department for a team-oriented individual. The successful candidate will be responsible for the in vitro characterization of novel drugs. The position requires a Ph.D. and 1-4 years of postdoctoral training, and extensive experience with radioligand binding and functional assays to characterize drug-receptor interactions. Receptor cloning and mutagenesis experience is desirable. ALANEX offers a friendly and stimulating professional environment, and a competitive salary and benefits package, including stock options. Please send your resume to: Human Resources, Job Code 210, ALANEX Corporation, 3550 General Atomics Court, San Diego, CA 92121.
National Institutes of Health

BIOORGANIC CHEMIST

The Genetics and Biochemistry Branch, National Institute of Diabetes and Digestive and Kidney Diseases, seeks an outstanding candidate to carry out studies on the molecular mechanisms of homologous recombination and the structure of the triplex intermediates involved in this process. The candidate must have a Ph.D. (or its equivalent) in bioorganic chemistry and at least five years of postdoctoral training in nucleic acid chemistry related to understanding higher-order DNA structures (including chemical and photo-footprinting); experience in peptide chemistry is also essential. Applicant should be familiar with methods of molecular biology and biochemistry, protein and peptide purification (FPLC, HPLC), physical chemistry (including Raman spectroscopy and circular dichroism). Research experience in the biochemistry of multistranded DNA structures (triplexes, quadruplexes) and molecular mechanisms of general recombination must be proved by publications or preprints. Starting salary ($31,000-41,000) commensurate with qualifications and experience. U.S. citizenship or permanent residency is required for this position. Interested candidates should submit CV, several reprints, summary of research interests and names of three references within 30 days of publication to:

R. Daniel Camerini-Otero, Genetics and Biochemistry Branch, National Institutes of Health (NIDDK), Building 10, Room 9D20, 10 Center Drive MSC 1810 Bethesda, MD 20892-1810

NIH is an Equal Opportunity Employer

Cellular and Molecular Neurobiology

Postdoctoral Positions

Postdoctoral positions are available at the Worcester Foundation for Experimental Biology to study cellular and molecular aspects of neurobiology. These positions are supported by an NIH Training Grant and individual investigator awards. The faculty and their research interests are:

Hagan Bayle: Protein kinases in neuronal modulation/caged peptides and proteins.

Justin Fallon: Molecular mechanisms of synaptogenesis.

F. Rob Jackson: Molecular genetic analysis of circadian rhythms and other neural functions in Drosophila.

Michele Jacob: Neuronal synapse formation: regulation of gene expression: targeting to synaptic domains.

Daniel Kilpatrick: Transcriptional regulation of neuronal differentiation.

José Lemos: Stimulus-secretion coupling at nerve terminals, identifying their calcium channels and molecular mechanisms underlying neurotransmitter release.

Robert O’Connell: Neurobiology of quality perception in olfaction including stimulus detection, transduction, coding and behavior.

Alonzo Ross: Neurotrophin receptors, signal transduction and differentiation.

Richard Vallye: Microtubule motor proteins; synaptic GTPase dynamin.

Zaoshang Xu: Structure and function of neurofilaments and their neuronal physiology and pathology.

Send curriculum vitae and names of references to the faculty member(s) of interest, c/o Human Resources, Worcester Foundation for Experimental Biology, 222 Maple Avenue, Shrewsbury, MA 01545, USA. An Equal Opportunity/Affirmative Action Employer M/F/H.

Analytical Assay Scientist

PRIZM Pharmaceuticals, Inc., is a private company engaged in the development of therapeutic products based on the regulation of growth factors and their receptors.

The research scientist selected for this hands-on position will develop and validate immunoassays and other bioanalytical methods in biological fluids (ELISA, RIA, Western, HPLC) for the characterization of protein and peptide-based products to support pharmacokinetic, safety evaluation, and drug delivery studies. The qualified candidate will eventually develop robotic methods for high-volume assays and assays for analysis of clinical samples. A Ph.D. and at least 4 years of postdoctoral experience are required. Knowledge of GLP/GMP compliance issues and strong written and verbal communication skills are essential. Industry experience is highly desired.

Please send your CV to: PRIZM Pharmaceuticals, Inc., Human Resources, 11035 Roselle Street, San Diego, CA 92121, FAX 619/625-0050. An equal opportunity employer.
In the Institute for Pharmacy and Food Chemistry, Science Faculty II (Biology, Chemistry and Pharmacy), the following position is available from 1. 10. 1996:

**Chair of Pharmaceutical Chemistry**
**(C4-Professor)**
**(Successor to Prof. Dr. H. Achenbach)**

The responsibilities include adequate representation of the subject of Pharmaceutical Chemistry in research and teaching. The research interests of the candidate should be in a topical area of Pharmaceutical Chemistry.

The qualifications for this position are a completed university degree, excellent teaching skills, a doctoral degree and habilitation, or proven alternative equivalent scientific achievements. The license as a pharmacist is desirable.

The successful candidate must be under 52 years of age at the time of appointment.

The University of Erlangen-Nürnberg aspires to increase the proportion of women in research and teaching, and specifically requests applications from female candidates.

Applications from disabled candidates of the same aptitude will be given preference.

Applications containing the usual documents (curriculum vitae, list of publications and teaching activities, certified copies of testimonies and certificates) should be sent before May 30, 1995 to: Dekan der Naturwissenschaftlichen Fakultät II (Biologie, Chemie und Pharmazie) der Universität Erlangen-Nürnberg, Universitätstraße 40, 91054 Erlangen, Germany.

**Friedrich-Alexander-Universität Erlangen-Nürnberg**

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**MEDIZINISCHE EINRICHTUNGEN**

**MOLECULAR BIOLOGIST**

**Dept. of Dermatology**

**(Hautklinik, Dr. G. Michel PhD)**

**University of Düsseldorf**

**Announcement No. 67 E/95**

Postdoctoral position available from July 1995 for 3 years to isolate skin cancer-associated genes by differential display. Salary according to German BAT Ib/IIa (ca. DM 93 600,- per year).

Qualified and interested candidates should send c. v. including publication list and evidence of German citizenship or legal authorization to work in Germany which is not limited to a particular employer to:

Medizinische Einrichtungen der
Heinrich-Heine-Universität
Düsseldorf
D 01.2.1-No. 67 E/95
P.O. Box 10 10 07
40001 Düsseldorf
Germany

The University of Düsseldorf is an Equal Opportunity Employer.
POSITIONS OPEN

POSTDOCTORAL FELLOWSHIP
Hormone Action/Reproductive Biology

Positions available in an NIH-sponsored training pro-
gram on the cellular and molecular mechanisms of hor-
monal action relating to reproduction. Eleven laboratories
participate in this intradepartmental program having ex-
pertise in the action of estrogen, progesterone, LH/FSH,
gonadotropins, cell division, proliferation, gene regu-
lation, and structural biology. Please send curriculum vitae and
three letters of reference to:

Dr. David Toft
Department of Biochemistry and Molecular Biology
Mayo Graduate School
200 First Street SW
Rochester, MN 55905

Mayo Foundation is an Affirmative Action and Equal Opportu-
nity Educator and Employer.

POSTDOCTORAL FELLOWSHIPS
CANCER BIOLOGY

The Committee on Cancer Biology (begin July 1, 1995) and the Cancer Biology Training Program (begin September 1, 1995) are seeking applicants from quali-
fied applicants. The University of Chicago offers an inter-
disciplinary program of postdoctoral training in prepara-
tion for research in the field based at the Cancer Bi-
ology. FELLOWSHIPS are for one year, renewable for
two. Applicants should apply directly to Cancer Biology
faculty. For more information, including faculty research
interests and addresses, please contact: Mr. Larry
Hill, Ben May Institute MC 6027, University of Chi-
cago, 5841 S Southland Avenue, Chicago, IL
60637. The University of Chicago is an Affirmative Action/ Equal Opportunity Employer.

Agricultural United States
Research Department of
service Agriculture

SOIL PHYSICIST

The United States Department of Agriculture, Agricul-
tural Research Service, Plant Production and Product
Safety Research Laboratory, Fayetteville, Arkansas is seek-
ing a RESEARCH SOIL PHYSICIST. The incumbent
will work with a team of scientists to establish the effect of
land application of poultry and animal waste on the qual-
ity of surface and ground water. The incumbent’s research
program is expected to define those variables that influ-
ence surface runoff and subsurface water flow in soils. It is
expected that hydrology models for runoff and subsurface
waterflow will be developed, evaluated, and used to estab-
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2104. For information on application procedures/forms,
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response to this advertisement should be marked ARS-S-
5-004. Applications must be postmarked by June 9, 1995.
Mailing address:

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