nm transilluminator commonly used for ethidium bromide–stained nucleic acid gels. Both dyes can be used with native SDS and gradient gels. These orange and red dyes give a linear response from about 1 ng of protein per band to greater than 1 μg per band. Molecular Probes. Circle 143.

Plasmid DNA Isolation
The PlasmidPURE DNA Miniprep Kit allows researchers to quickly isolate high yields of plasmid DNA with no phenol extractions, ethanol precipitations, or guanidine hydrochloride protein denaturations. The kit is optimized to isolate as much as 15 μg of plasmid DNA from 1 to 3 ml of bacteria culture in minutes. The resulting DNA is ready for use in restriction and modifying enzyme protocols, sequencing, transformations, and ligations. Sigma Biosciences. Circle 144.

Protein Concentrators
Ultrafree-15 centrifugal filters can concentrate 15 ml of protein to 150 μl in just one spin. Users can concentrate, desalt, or purify aqueous biological samples within 15 to 60 min with high recoveries. The one-spin method reduces hands-on time because there is no need to decant filtrate several times during the process. Millipore. Circle 145.

Literature
Paratherm HE High Efficiency Heat Transfer Fluid provides technical information on a fluid that provides precise and uniform temperature control in process applications. Paratherm Corp. Circle 146.


Proteam L describes a low-pressure liquid chromatography system for protein purification in which the programmable fraction collector provides unified control of elution and collection procedures. Isco. Circle 148.

ASTED XL System is a 12-page brochure on a membrane-based, robotic sampling injector designed to automate on-line deproteinization of complex sample matrices prior to high-performance liquid chromatography injection. Gilson. Circle 149.

Turbo GC Lite highlights a system for gas chromatography analysis and data handling. Perkin Elmer. Circle 150.
The OECD Megascience Forum was established in June 1992 to help ensure the exchange of information and promote open and substantive discussion of issues relating to existing and potential megascience projects among Member country governments and the scientific communities involved in very large scientific undertakings. It organised a series of expert meeting in disciplines in which megaprojects (facilities or programmes) play a key role. The results of these meetings and of related policy issue discussions are published in the following series of books, in both French and English:

### Just Published

**Particle Physics**  
(92 95 01 1) ISBN 92-64-14309-7, 204 pages  
January 1995  
France: FF 250  
Other Countries: FF 325 US$ 63 DM 98

### Also Available

<table>
<thead>
<tr>
<th>Title</th>
<th>ISBN</th>
<th>Pages</th>
<th>Price</th>
<th>Currency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neutron Beams and Synchrotron Radiation Sources</td>
<td>92 94 09 1</td>
<td>129</td>
<td>FF 185</td>
<td>Other Countries: FF 240 US$ 44 DM 73</td>
</tr>
<tr>
<td>Oceanography</td>
<td>92 94 05 1</td>
<td>168</td>
<td>FF 90</td>
<td>Other Countries: FF 120 US$ 20 DM 36</td>
</tr>
<tr>
<td>Global Change of Planet Earth</td>
<td>92 94 01 1</td>
<td>150</td>
<td>FF 130</td>
<td>Other Countries: FF 170 US$ 29 DM 50</td>
</tr>
<tr>
<td>Deep Drilling</td>
<td>92 93 03 1</td>
<td>98</td>
<td>FF 170</td>
<td>Other Countries: FF 220 US$ 40 DM 70</td>
</tr>
<tr>
<td>Deep Drilling</td>
<td>92 93 02 1</td>
<td>106</td>
<td>FF 170</td>
<td>Other Countries: FF 220 US$ 40 DM 70</td>
</tr>
<tr>
<td>Megascience and its background</td>
<td>92 93 01 1</td>
<td>54</td>
<td>FF 70</td>
<td>Other Countries: FF 90 US$ 17 DM 29</td>
</tr>
</tbody>
</table>

For a free catalogue and orders write or fax this ad with your address to: OECD Publications 2, rue André-Pascal, 75775 Paris Cédex 16, France Fax: (33-1) 49 10 42 76

---

**Wako BioProducts**  
**Products For Your Life's Research**

<table>
<thead>
<tr>
<th>Category</th>
<th>Products</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antibodies</td>
<td>Immunology, Oncogene, Growth Factors, Heat Shock Proteins</td>
</tr>
<tr>
<td>Enzymes</td>
<td>Sequencing Grade, Bacteriolytic</td>
</tr>
<tr>
<td>Molecular Biology Kits</td>
<td>DNA Extraction, Protein Staining, Nucleic Acid Staining</td>
</tr>
<tr>
<td>Signal Transduction</td>
<td>Calcium Metabolism, Cell Cycle Inhibitors, and Cell Trafficking, Enzyme Activators and Inhibitors, Growth Factors, Ionophores, Neurotoxins, NO Research</td>
</tr>
<tr>
<td>Analytical Standards</td>
<td>Herb Ingredient Analysis, Agricultural Chemical Analysis, Water Analysis</td>
</tr>
<tr>
<td>Reagent Kits</td>
<td>ELISA, Microbial Detection and Quantitation, Diagnostic</td>
</tr>
</tbody>
</table>

Wako BioProducts, a supplier of high quality research reagents in the U.S. since 1981, continually strives to assist scientists in their Life's Research. As part of our commitment, we are dedicated to providing both a diverse and complete product line. If you don't see a particular product listed in our life science catalog, please call us.

Wako BioProducts  
Wako Chemicals USA, Inc.  
1800 Bellwood Road, Richmond, VA 23237  
Telephone: (804) 271-7677, Facsimile: (804) 271-7791  
(800) 992-9256

Circle No. 25 on Readers' Service Card
POSITIONS OPEN

ASSOCIATE/FULL PROFESSOR
Cell or Developmental Biology

The University of Iowa invites applications from cell or developmental biologists for the position of ASSOCIATE or FULL PROFESSOR in the Department of Biological Sciences. The successful candidate must have significant experience in research and teach courses in the research programs of the Department. This includes an interest in teaching who will foster the growth of our teaching in cell or developmental biology. Preference will be given to applicants with strong records of research achievement and a commitment to excellence in teaching. The successful candidate will have an M.D. degree and be eligible for tenure. Candidates must be committed to creating a diverse academic environment and be prepared to contribute in ways that enhance the University of Iowa's mission of excellence in research, teaching, and community engagement.

Contact
Applications will be accepted through October 15, 1995. Electronic applications through the University of Iowa Equal Opportunity/Affirmative Action Employer.

FLORIDA ATLANTIC UNIVERSITY
Assistant/Associate Professor in Botany

Applications are invited for a tenure-track position of ASSISTANT/ASSOCIATE PROFESSOR in the Division of Science at the University of Texas at Austin. The position will begin on September 1, 1996. Applications are invited from scientists who have demonstrated a strong record of research achievement and a commitment to excellence in teaching. The successful candidate will have a Ph.D. degree and be eligible for tenure. Candidates must be committed to creating a diverse academic environment and be prepared to contribute in ways that enhance the University of Texas at Austin's mission of excellence in research, teaching, and community engagement.

Contact
Applications will be accepted through October 15, 1995. Electronic applications through the University of Texas at Austin Equal Opportunity/Affirmative Action Employer.

PLANT EVOLUTION

The Department of Botany at The University of Texas at Austin invites applications for a tenure-track faculty position in Evolutionary Botany at the ASSISTANT PROFESSOR level starting September 1996. We are particularly interested in applicants who have significant experience in any area of research that contributes to our understanding of plant evolution and development. The successful candidate will have a Ph.D. degree and be eligible for tenure. Candidates must be committed to creating a diverse academic environment and be prepared to contribute in ways that enhance the University of Texas at Austin's mission of excellence in research, teaching, and community engagement.

Contact
Applications will be accepted through October 15, 1995. Electronic applications through the University of Texas at Austin Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION

Applied Physics/Physical Bioscience
California Institute of Technology

The Applied Physics program at Caltech invites applications for one tenure-track position as ASSISTANT PROFESSOR. We are seeking highly qualified candidates who are committed to a career in research and teaching. Exceptional candidates with an established record of excellence in research and teaching are encouraged to apply. The successful candidate will have a Ph.D. degree and be eligible for tenure. Candidates must be committed to creating a diverse academic environment and be prepared to contribute in ways that enhance the University of Texas at Austin's mission of excellence in research, teaching, and community engagement.

Contact
Applications will be accepted through October 15, 1995. Electronic applications through the University of Texas at Austin Equal Opportunity/Affirmative Action Employer.
POSITIONS OPEN

ASSISTANT PROFESSOR BIOCHEMISTRY

The Department of Biochemistry at The Johns Hopkins University invites applicants to fill a TENURE-TRACK FACULTY position within the broad area of biochemistry. This would include but is not limited to enzyme mechanisms, protein structure and function, and chemical/biophysical approaches to understanding cell function or regulation. The successful candidate will be expected to establish a vigorous and well-recognized research program and to participate in both graduate and undergraduate teaching in biochemistry or physical biochemistry.

Applicants should submit curriculum vitae with a statement of current and future research interests, and arrange to have three letters of recommendation sent to:

Dr. Robert Maier
Search Committee Chair
Department of Biology—Mudd Hall
The Johns Hopkins University
Chambers Hall
Baltimore, MD 21218

Deadline for receipt of applications is November 1, 1996.

The Johns Hopkins University is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are especially encouraged to apply.

BIOCHEMISTRY/MOLECULAR BIOLOGY MEHARRY MEDICAL COLLEGE

Faculty positions are available in 1995/1996 in the Department of Biochemistry, at the level of ASSISTANT PROFESSOR. Applicants must have a Ph.D. or M.D. degree, or both, and appropriate formal postdoctoral research experience. Joint appointments in clinical science are possible. We are seeking candidates with skills or demonstrated competence in the use of molecular biological or biophysical approaches to conduct research in molecular medicine, or on functional biological/ cellular biological problems. Selected individuals must also be capable of, and committed to making significant contributions to teaching and administrative functions of the Department of Biochemistry. Successful applicants will be expected to develop/ maintain a funded research program of high quality and to substantially participate in the graduate and professional (medical, dental and allied health) school teaching programs of the Department. Applicants should send curriculum vitae, a statement on teaching interests, names of four individuals who may be contacted for reference, and a summary (not exceeding four pages) of potential research project(s) to: Ifeanyi J. Arinze, Ph.D., Chairman, Department of Biochemistry, Meharry Medical College, Nashville, TN 37208. An Equal Opportunity/ Affirmative Action Employer.

DIRECTOR CVRI

DIRECTOR, Cardiovascular Research Institute (CVRI), University of California, San Francisco. The CVRI is an interdepartmental, interdisciplinary research and teaching Organized Research Unit. The director should have a demonstrated research track record in contemporary biology and the vision to direct programs in cardiovascular and pulmonary biology at the interface between fundamental science and medicine. Send curriculum vitae to: Robert B. Jaffe, M.D., Chair, Search Committee c/o Dean's Office, School of Medicine, University of California, San Francisco, San Francisco, CA 94143-0410. UCSD is an Affirmative Action Employer. Women and minorities are encouraged to apply.

UNIVERSITY OF CALIFORNIA AT BERKELEY

Faculty Position in Chemistry

The Chemistry Department at the University of California at Berkeley, solicits applications for a senior position as a Professor of Chemistry, with an anticipated start date in the fall of 1996. Creative and energetic candidates in organic chemistry with outstanding qualifications and sufficient experience in research and teaching are specifically sought. Candidates should send a curriculum vitae and synopsis of their research program to: Chairman, Faculty Recruitment Committee (66), Department of Chemistry, University of California, Berkeley, CA 94720-1460. The deadline for receipt of application is December 1, 1995. The University of California is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

FACULTY POSITION IN MOLECULAR MINERAL NUTRITION

The University of Minnesota extends a solicitation for a tenure-track ASSISTANT PROFESSOR in Nutritional Sciences. Applicants should have a Ph.D. in biochemistry, molecular biology, nutritional sciences or related area, and demonstrate the capacity to establish a research program that is expected to develop a nationally funded, innovative research program utilizing modern molecular and/or biochemical methods to address problems in mineral nutrition. Preference will be given for individuals focused on aspects of metal-related nutrient regulation of gene expression or genetics of in-born errors of metabolism. The position will be housed in a newly remodeled facility as part of our current expansion. Interested individuals should submit a summary of their research accomplishments, curriculum vitae, three letters of reference, and three letters of reference to: A. Sunde, Search Committee Chair, Nutritional Sciences Program, 217 Gowynn Hall, University of Minnesota, Columbia, MO 65211. Applications accepted until October 31, 1995, or until position is filled.

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

ASSISTANT PROFESSOR OF Nutrition. Nine-month, tenure-track appointment. Requires doctorate in appropriate field, postdoctoral research experience mandatory. Responsibilities include teaching undergraduate and graduate courses, development of an externally funded research program related to human nutrition, publications in high-impact refereed journals, and research support and dissemination via grants/collaborations. Applicants must be able to demonstrate potential for research funding through extramural sources of support. Individuals with three years of postdoctoral experience and demonstrated ability to attract extramural funds will be given preference.

Applicants should send curriculum vitae, a statement of research interests, and three letters of reference to: Dr. M. Keating, Search Committee Chair, Department of Nutrition, 3205 University Hall, Tallahassee, FL 32306. An Equal Opportunity/Affirmative Action Employer.

PROFESSOR OF METALLOBIOCHEMISTRY/DIRECTOR, NEBRASKA CENTER OF METALLOBIOCHEMISTRY (Re-advertisement)

University of Nebraska-Lincoln seeks applications from leaders in the field of metallochemistry to fill a full PROFESSOR position and to serve as DIRECTOR for the Nebraska Center of Metallochemistry. Requires an active, externally funded research program in an area of metallopeptide research. Applicants should have a Ph.D. in the biological sciences and be able to demonstrate a record of successful research, teaching, and administration. Applicants must have potential for substantial extramural funding. Applicants should send a curriculum vitae, a statement of research interests, and three letters of reference to: Chair, Metallochemistry Search Committee, University of Nebraska-Lincoln, Department of Biochemistry, Beadle Center, N200, Lincoln, NE 68588-0664. Telephone: 402-472-2932. University of Nebraska-Lincoln is committed to a pluralistic campus community in the spirit of Equal Opportunity and Affirmative Action and is responsive to the needs of dual-career couples. We assume reasonable accommodation under the Americans With Disabilities Act.

DIRECTOR, Cytogenetics Laboratory: The Division of Human Genetics of the Children’s Hospital Research Foundation (CHRIF) is seeking an independent investigator to lead a laboratory program in cytogenetics and molecular genetics. This is an independent laboratory, with a strong research and clinical component, and is responsive to the needs of dual-career couples. The successful candidate should have a Ph.D. degree, postdoctoral experience, and a strong record as an independent investigator. Send curriculum vitae, bibliography, and three letters of recommendation to: Gregory S. Grabowski, Ph.D., Director, Division of Human Genetics, CHRIF, 3333 Burnet Avenue, Cincinnati, OH 45229-3039. Children’s Hospital Medical Centers is an Affirmative Action/Equal Opportunity Institution. Women and minorities are encouraged to apply.

DIRECTOR

Department of Pharmacology and Molecular Science

The Johns Hopkins University School of Medicine is seeking exceptional faculty members to join our Department of Pharmacology and Molecular Science. Applicants should have established lines of research and demonstrated outstanding abilities in research and teaching.

Please send letter of application, curriculum vitae and bibliography to:

Jeremy M. Berg, Ph.D.
Chairman, Pharmacology & Molecular Science Search
Johns Hopkins University School of Medicine
720 Rutland Avenue, MC 745
Baltimore, MD 21205-2196

An Affirmative Action/Equal Opportunity Employer

FACULTY POSITION

Eukaryotic Gene Expression

Colorado State University

The Department of Biochemistry and Molecular Biology seeks applicants for a TENURE-TRACK POSITION from individuals at any level working on the molecular and cellular basis of transcription or mRNA utilization. The department has considerable expertise in the areas of gene expression, neurobiology, and structural biology. It is developing programs building on a full complement of core facilities and trained instrumentation. Applicants must have a Ph.D. degree, postdoctoral experience, and a strong record as an independent investigator. Send curriculum vitae, a statement of research interest and three reference letters must be received by October 31, 1995. Send to: Dr. P. Catteral, Department of Biochemistry and Molecular Biology, Colorado State University, Fort Collins, CO 80523. Colorado State University is an Equal Opportunity/ Affirmative Action Employer. Women and minorities are encouraged to apply.

POSITIONS OPEN

CHILDREN’S HOSPITAL UNIVERSE OF MEDICINE, DIRECTOR, Developmental Biology

Applications are invited for the position of DIRECTOR of Developmental Biology and Albert Sabin Professor of Pediatrics to lead a well-established program in molecular and developmental biology. The successful candidate will be expected to direct their own outstanding research program, lead the Division of Developmental Biology (a ten-member Ph.D. faculty with primary focus to the molecular biology of mammalian development), participate in a well-established graduate program in developmental biology and interact with research activities in development in several sciences at the Children Research Foundation and the University of Cincinnati College of Medicine. Candidates will have a M.D. and/or Ph.D. degree and an internationally recognized position in developmental molecular biology. Outstanding support facilities are available for the Director and the program. Send a letter of interest, curriculum vitae to: Jeffrey A. Whitsett, Associate Chair of Pediatrics, c/o Search Committee, Children’s Hospital Medical Center, Division of Pulmonary Biology, 3333 Burnet Avenue, Cincinnati, OH 45229-2932. Children’s Hospital Medical Center is an Affirmative Action/Equal Opportunity Institution. Women and minorities are encouraged to apply.

The Blood Center of Southeastern Wisconsin, Milwaukee announces a search for the PRESIDENT and Chief Executive Officer who will be responsible for all of the Center’s operational units: Blood Services, Clinical Laboratories and Research and for a separate entity, The Blood Center Research Foundation. An M.D. degree is preferred but not required, as are experience with bioscience, laboratory diagnosis, and awareness of trends in American health care. Demonstrating leadership and executive potential will be a high priority; the candidate must be a high energy executive with commitment to maintain The Blood Center in a position of leadership among blood service organizations.

Fellowships for Biological and Biomedical Sciences

The Howard Hughes Medical Institute announces the 1996 competitions for fellowship programs that support training in fundamental biological and biomedical research. Awards, based on international competitions, focus on research directed to understanding basic biological processes and disease mechanisms. Fellowships may be held at academic or nonprofit research institutions.

**Predoctoral Fellowships in Biological Sciences**

Up to five years of support for full-time graduate study toward a Ph.D. degree in biostatistics, cell biology and regulation, epidemiology, genetics, immunology, neuroscience, or structural biology. Applicants must not have completed the first year of postbaccalaureate graduate study in biology. *Application deadline: early November.*

**Postdoctoral Research Fellowships for Physicians**

Three years of support for training in fundamental research subsequent to at least two years of postgraduate clinical training and no more than two years of postdoctoral research training. *Application deadline: mid-December.*

**Research Training Fellowships for Medical Students**

An opportunity for medical students in the United States to explore a burgeoning interest in fundamental research. Support is awarded for one year of full-time fundamental research in a laboratory at the student's medical school or another institution (except NIH in Bethesda, Maryland). *Application deadline: early December.*

**Research Scholars at the National Institutes of Health**

Under this joint HHMI-NIH program, medical students in the United States spend an intensive year in research in the intramural program at NIH in Bethesda, Maryland. Residence is provided at the Cloister on the NIH campus. *Application deadline: early January.*

**1996 Program Announcements and Applications**

*For Predoctoral Fellowships:*

Hughes Fellowship Program  
The Fellowship Office  
National Research Council  
2101 Constitution Avenue  
Washington, DC 20418  
United States of America  
Telephone: (202) 334-2872  
Fax: (202) 334-3419  
E-mail: infowell@nas.edu

*For Other Programs:*

Howard Hughes Medical Institute  
Office of Grants and Special Programs  
Department AL96  
4000 Jones Bridge Road  
Chevy Chase MD 20815-6789  
United States of America  
Telephone: (301) 215-8889  
Fax: (301) 215-8888  
E-mail: fellows@hq.hhmi.org

The Howard Hughes Medical Institute, an Equal Opportunity Employer, welcomes applications from all qualified candidates and encourages women and members of minority groups to apply.
**POSITIONS OPEN**

**CHAIRMAN**
Department of Medical and Molecular Genetics
Indiana University seeks candidates for the tenure-track position of CHAIRMAN of the Department of Medical and Molecular Genetics. Candidates must hold an M.D. and/or Ph.D. degree, be knowledgeable in scientific research, and have experience in medical education and administration. Send curriculum vitae and references to: C. Conrad Johnston, Jr., M.D., Professor of Medicine, Chairman, Search and Screening Committee, Indiana University School of Medicine, Feaster Hall 302, 1120 South Drive, Indianapolis, IN 46202-5114.

Indiana University is an Affirmative Action/Equal Opportunity Employer/Men/Women/Female.

**RESEARCH DIRECTOR**
Midwestern specialty agricultural chemical firm seeks an executive level RESEARCH DIRECTOR to head its 85 member Technical Department. This person will report directly to the President. Principal duties will be to direct all research, quality assurance and government regulatory efforts. The successful candidate will thrive in a sales-driven environment. Excellent communication skills, Ph.D. in Biochemistry, experience in microbiology, analytical chemistry, and fermentation. Must have industry experience. Please send resume in confidence to: Mr. Dwaine Francis, Francis & Associates, 6923 Vista Drive, West Des Moines, IA 50266. Physical with drug test required. Non-smokers only.

**FACULTY POSITION**
RADIONUCLIDE BIOLOGY
The University of Maryland Cancer Center is expanding its research program in radiation oncology and biology. We are seeking an individual to develop and lead a preclinical research program on hematopoietic function, inflammation and sepsis as it relates to radiation exposure to: Professor Max O. Funk, Jr., Department of Chemistry, University of Toledo, 2801 West Bancroft Street, Toledo, OH 43606. Review of applications will begin on October 1, 1995, and will continue until the position is filled. The University of Toledo is an Affirmative Action and Equal Employment Opportunity Employer/Men/Women/Female/Disabled/Veteran.

**BIOPHYSICS FACULTY POSITION**
MACROMOLECULAR CRYSTALLOGRAPHY
The University of Toledo has received a major award from the Ohio Board of Regents to create a regional crystallography center: The Ohio Crystallography Consortium at the University of Toledo. Part of this funding will be used to establish a modern laboratory for macro-molecular crystallography in the Department of Chemistry. Applications to the University of Toledo invites applications for a TENURE-TRACK FACULTY position in the field of biological chemistry/molecular crystallography. The position requires a Ph.D. in chemistry, biochemistry, or crystallography and relevant postdoctoral experience with an outstanding record of achievement in research. The successful candidate will be expected to establish and maintain an externally funded research program while participating in the activities of the consortium and contributing to the excellence in instruction in chemistry at all levels. Applications will consist of a detailed research plan, curriculum vitae, and three letters of recommendation. All application materials should be sent to: Professor Max O. Funk, Jr., Department of Chemistry, University of Toledo, 2801 West Bancroft Street, Toledo, OH 43606. Review of applications will begin on October 1, 1995, and will continue until the position is filled. The University of Toledo is an Affirmative Action and Equal Employment Opportunity Employer/Men/Women/Female/Disabled/Veteran.

**EDUCATOR**
Assistant/Associate/Full Professor
The Department of Microbiology and Immunology at Wright State University is seeking applications for a TENURE-TRACK EDUCATOR. Applicants should demonstrate expertise in teaching with an in-depth and current knowledge of microbiology and experience in teaching laboratory aspects of microbiology, excellent communication and teaching skills, and evidence of leadership in educational development. The successful candidate will join an existing and growing faculty to expand our laboratory programs. Applicants should send a curriculum vitae, a list of publications, and a description of research plans to: Gerald T. Babcock, Chair, Department of Chemistry, Wright State University, East Lansing, MI 48824. Applications will be reviewed and positions will continue until the positions are filled. Wright State University is an Affirmative Action/Equal Opportunity Institution. Applications from women and underrepresented minorities are particularly encouraged.

**RESEARCH FACULTY**
TRANSPLANT IMMUNOLOGY
The Division of Cardiovascular Medicine, Department of Medicine and the Cardiovascular Research Center invite applications for a full-time, service, ASSISTANT or ASSOCIATE PROFESSOR holding a Ph.D. with an interest in translational research. A major interest is the development of a reprogramming of transplant plantation, although individuals with related research interests will be considered. The successful candidate will also instruct in the education of graduate and medical students as well as other trainees at the Medical College. Direct inquiries and curriculum vitae to: Jeffrey Hosenpud, M.D., Division of Cardiovascular Medicine, Medical College of Wisconsin, 8700 West Wisconsin Avenue, Milwaukee, WI 53226.

**UNIVERSITY OF VIRGINIA SCHOOL OF MEDICINE**
Tenure-Track Positions in Molecular Biology
The University of Virginia School of Medicine is underdaging a major expansion of its basic science faculty. As a part of this effort, the Department of Biochemistry will make several new TENURE-LEVEL TENURE-TRACK appointments to outstanding individuals whose research efforts focus on mechanisms of transcription, RNA processing, DNA replication, or genome rearrangement. Candidates should hold a Ph.D. and/or M.D. in an appropriate discipline and should have demonstrated the capability to develop and maintain a very high quality, independent research program. Support for these positions includes attractive laboratory space and start-up packages, as well as an interactive research community. Interested individuals should have a curriculum vitae and three letters of recommendation forwarded no later than October 15, 1995, to: Chairperson, Biochemistry Search, Box 440 Jordan Hall, University of Virginia, HSC, Charlottesville, VA 22908. The University of Virginia is an Equal Opportunity/Affirmative Action Employer.

Yale University School of Medicine announces plans to establish a new, free-standing Section of Microbial Pathogenesis, to carry out basic studies in the molecular pathogenesis of infectious disease. This appointment is underway for a senior individual with a record of outstanding research in viral or bacterial pathogenesis to head and develop this section. The opportunity to recruit new faculty, with considerable resources, and a newly available renovated space is available. The Section of Microbial Pathogenesis will have a major responsibility for postdoctoral and postdoctoral training programs in microbiology. The successful candidate will be appointed at the level of PROFESSOR. Interested candidates should send curriculum vitae, a statement of research interests, and three references to: Keith Joiner, Chair, Microbiology Search Committee, LCI 808, Yale University School of Medicine, 333 Cedar Street, P.O. Box 208022, New Haven, CT 06520-0222. Application deadline is November 1, 1995. Yale University is an Equal Opportunity Employer. Women and minority applications are encouraged to apply.

Penn State, Chemistry Department, FACULTY POSITIONS. Tenure-track faculty positions are available starting fall 1996 in any area of chemistry. The appointee is expected to establish an exceptionally strong and highly visible research program. Evidence of excellence in undergraduate and graduate teaching is also essential. Postdoctoral experience is preferred. A complete resume, a synopsis of research plans and three letters of recommendation are required. Review of applications will begin October 4, 1995, and continue until the positions are filled. Send information to: Chair, Chemistry Search Commit- tee, Box S, The Pennsylvania State University, Depart- ment of Chemistry, 152 Davey Laboratory, University Park, PA 16802. An Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.
Genomics to antibiotics—ensuring a healthy future.

This is the challenge at SmithKline Beecham Pharmaceuticals’ newly organized Microbiology Research Department. This recent initiative represents a consolidation of resources committed to intensive research on new antimicrobial targets. The rapid emergence of bacterial resistance to antibiotics has spurred the exploitation of the bacterial genome sequencing initiatives to discover the drugs that will shape and influence the future of worldwide health programs.

SmithKline Beecham is at the forefront in this dynamic arena, and our major recruiting effort for this initiative presents many opportunities for leading scientists to contribute significantly to anti-infectives research. It also offers the chance to collaborate with leading academic departments and strategic alliance partners.

**Department of Molecular Pathogenicity**
PhD, MS and BS positions available in Microbiology, Microbial Genetics and Molecular Biology.

**Department of Molecular Microbiology**
PhD, MS and BS positions available in Microbial Biochemistry, Microbial Genetics and Molecular Biology.

**Department of Microbial Infectivity and Clinical Microbiology**
PhD, MS and BS positions available in Microbiology.

Located in our state-of-the-art research facility in suburban Philadelphia, SmithKline Beecham offers an excellent compensation/benefits/relocation package. For confidential consideration please send your resume and salary requirements to: SmithKline Beecham Pharmaceuticals, Department MR/AS-995, PO Box 2645, Bala Cynwyd, PA 19004.

We are an Equal Opportunity Employer. M/F/D/V
Five, tenure-track positions at the level of ASSISTANT PROFESSOR. A Microbiologist and a Geneticist to teach general and upper division courses in these speciality areas; a Developmental Biologist to teach mammalian anatomy and embryology; an Animal Cell Biologist to teach cell biology and the use of a Micro-tosh computer laboratory; a Zoologist to teach general biology for non-majors and animal biology for majors. Each individual will be expected to obtain established grants of their own, teach a graduate level course in their specialty and develop a research program with potential for extramural funding. Ph.D. required and postdoctoral training preferred. Applicants should submit letter of recommendation to: Dr. Anthony E. Sobotka, Department of Biology, Youngstown State University, 410 Wick Avenue, Youngstown, OH 44555. Please note in your introductory letter for which position you are applying.

Tulane University is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS IN SYNTHETIC PROTEIN CHEMISTRY

POSTDOCTORAL POSITIONS are now available to apply novel synthetic protein chemistries to the study of proteins and protein assemblies involved in signal transduction. Currently developed biomimetic and bioanalytical techniques will be employed, in an integrated approach to the design and study of protein targets. Enthusiastic applicants should have a strong background in bio-organic chemistry and be interested in working at the active interface of chemistry with biology. Please contact: Tom Muir, Ph.D., Synthetic Protein Chemistry, Department of Chemistry, The Rockefeller University, Box 223, 1230 York Avenue, New York, NY 10021. The Rockefeller University is an Equal Opportunity/Affirmative Action Employer.
The Skin Biology Research Center of Johnson & Johnson seeks candidates to join a group of scientists investigating the basic mechanisms underlying the structural and molecular biology of skin, scarring and hair growth. Scientists interested in the biology of growth and development at a molecular level are encouraged to apply. In the planned experiments, the approaches of positional cloning and differential gene screening will be taken.

The laboratories are located in a beautiful part of New Jersey, near Princeton and halfway between New York City and Philadelphia. Liberal research support, excellent library facilities, and a good benefits package are provided. Although outside grant support is not required, publication of experimental results is strongly encouraged.

Ours is a smoke-free workplace. To apply, send your CV with three references to: Dept. 361, Johnson & Johnson Recruiting, Employment Management Center, P. O. Box 16597, New Brunswick, NJ 08906-6597. We are an equal opportunity employer and support diversity in the workplace.

Johnson & Johnson

"Leadership Beyond Compliance"

---

**NATIONAL INSTITUTES OF HEALTH**

**NATIONAL INSTITUTE ON ALCOHOL ABUSE AND ALCOHOLISM**

**CLINICAL DIRECTOR**

An outstanding clinician-investigator to establish an independent research program and oversee intramural clinical research is sought by the Division of Intramural Clinical and Biological Research (DICBR), National Institute on Alcohol Abuse and Alcoholism (NIAAA), National Institutes of Health (NIH). The position is located in Bethesda, Maryland.

The Clinical Director oversees a research program of national and international scope and importance, including a 10-bed research ward, an outpatient research facility and a positron emission tomographic (PET) program. Salary range to $148,400 depends on qualifications, with relocation expenses available.

The position must be filled by a physician. Applicants with certification in internal medicine, psychiatry, neurology or related specialties, and demonstrated research and clinical excellence are encouraged to apply to:

**NIAAA Personnel**

Attn: Kathleen Hanratty

NIH Bldg 31/1B58

31 CENTER DR MSC 2088

BETHESDA MD 20892-2088

NIH is an Equal Opportunity Employer. Applications from women, minorities, and persons with disabilities are strongly encouraged. The DICBR/NIAAA is a smoke-free environment.

---

**POSTDOCTORAL POSITION**

**Environmental Research Division**

A post-doctoral position in the Environmental Research Division at Argonne National Laboratory is available starting October 1, 1995 for an Ecological Modeler. The project involves the modeling of forest growth using an individual tree gap-type model. The model will be used to assess the effects of climate change on forest ecosystems. Focus of this project is to improve existing model functions for mortality, seedling production, crowding, life history factors, and others, based on field and literature data, to make the model more realistic. Particular attention will be focused on characterizing transient responses of the model, developing historical test data sets, testing model output against demographic and life history data, and comparing model response to forests under known stresses such as severe droughts. Initial appointment is one year with the possibility of renewal for three years. Desired starting date is Oct. 1, 1995. The applicant should have a Ph.D. degree not more than three years prior to the beginning of the appointment. Forestry, Ecology, or a related field, with experience in ecological modeling and forest growth analysis. At Argonne, you will find an environment that encourages both personal and professional career growth. We welcome applications from candidates who can contribute to our EEO/Affirmative Action goals. Salary for post-doc positions at Argonne is competitive. Send cv., names, addresses and phone numbers of four references, transcripts, copies of relevant publications (including in press), and a summary of the Ph.D. thesis, to: Susan Walker, Box ER-POSTDOC-55, Employment and Placement, Argonne National Laboratory, 9700 S. Cass Ave., Argonne, IL 60439. Telecommunications Device for the Deaf-(708) 252-7722. Argonne is an equal opportunity/affirmative action employer.

---

**RESEARCH INVESTIGATOR**

Hoffmann-La Roche, a major force in the international pharmaceutical field, is inviting applications for a Ph.D. Pharmacokinetics and Pharmacokinetics/Pharmacodynamics (PK/PD) position in the Department of Drug Metabolism and Pharmacokinetics at our Nutley, New Jersey campus.

Among your primary responsibilities, you will: design, conduct and evaluate pharmacokinetic and PK/PD experiments to aid in the selection of new drug candidates; prepare protocol design, data assessment and reporting for toxicokinetic studies; present results and write technical and regulatory submissions.

To qualify, you must have a Ph.D. in Pharmacokinetics, Pharmaceutical Sciences or a related discipline and 8+ years post-doctoral industrial or academic experience in animal pharmacology and pharmacokinetics. An understanding of the drug development process and related scientific disciplines, with a knowledge of pharmacokinetic and PK/PD data analysis techniques, are musts. Excellent scientific accomplishments with demonstrated managerial, interpersonal and written/oral communication skills, as well as the ability to work in a team environment, are essential.

We offer a competitive salary and a progressive benefits package. To apply, please send your resume with present salary to: Ms. Lynn Harac, Staffing Dept. LH255DL, Hoffmann-La Roche Inc., Nutley, New Jersey 07110-1199. PRINCIPALS ONLY. No phone calls, please. We are an equal opportunity employer.
POSITIONS OPEN

POSTDOCTORAL POSITION
MOLeCULAR BIOLOGY

Position available to elucidate structure/function properties of tight junction (TJ) proteins, with a focus on TJ function factor and its relationship to transmigration (MCB. 15: 852, 1995) and globin switching (JBC, 270: 1995, 1995). Expertise in molecular biology, murine embryology, and cell culture. The postdoc will conduct mouse breeding experiments, makeSend a currículum vitae, a brief summary of research experience, and three reference letters to: Dr. James J. Bieker, Brook-
dale College of Science and Technology, School of Medicine, Box 1126, One Gustave L. Levy Place, New York, NY 10029-6874. FAX: 212-860-
9279; Professor, jbieker@sunplink.nyu.edu. An Equal Opportunity Employer.

A POSTDOCTORAL POSITION is immediately available to work on a NSF-funded project focusing on
tegration of mechanoreceptive and nociceptive sensory input within the mammalian spinal cord. Expertise in single-unit neurophysiological techniques is not required. This position is highly desirable. The successful candidate will have a background in neuroscience and pain.

POSITIONS OPEN

GENE TRANSFER/GENE THERAPY

Two POSTDOCTORAL POSITIONS available im-
mediately for two to four years to study AAV-mediated
transduction and long-term in vivo expression of genes in
murine and human hematopoietic stem cell-derived pro-
genotypes. Ph. D’s and/or M.D.’s with experience in molecular
biology, cell biology, and/or immunology are encour-
gaged. The position is 50% in vitro and 50% tele-
phone number of three references to: Dr. Arun Srivasta,
Department of Microbiology & Immunology, Indiana University School of Medicine, 550 East Carmel Drive, Indianapolis, IN 46202. FAX: 317-274-4090, or Dr. Mervin C. Yoder, Herman B. Wells Center for
Psychiatric Research, Indiana University School of Medicine, 702 W. Michigan Street, Indianapolis, IN 46202. FAX: 317-274-2064. Indiana University is an Af-
firmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION: USDA, Agricul-
tural Research Service, National Animal Disease Center,
Ames, Iowa, has an opening for a Microbiologist to study
the pathogenesis of mycobacterial infection in animals.
Candidate will investigate mechanisms for intracellular
survival of Mycobacterium bovis and M. paratuberculosis in
macrophages, and be part of a team consisting of a microbi-
ologist, a pathologist, and an immunologist. Ph.D. de-
gree required. Knowledge of tissue culture, cell biology and immunochemistry is required. This position is
limited to two years, with an option to extend for an additional year. The successful candidate will have a
background in molecular biology and an interest in the immunochemistry.

DNA EDITING OF GLI1 ION CHAINS

POSTDOCTORAL POSITION is available to study
the RNA editing of GluK ion channel gene transcripts
in mammalian brain; the molecular mechanism and its re-
levance to neurodegenerative diseases such as Alzheimer’s.
Candidates should have expertise in molecular genetics and a strong background in protein purification are essential. The successful candidate will have a
background in transcriptional biology, cell biology and molecular biology will be considered. Please send curriculum vitae and names of three references to:
Dr. Carmela R. Abraham, K-5, 80 East Concord Street, Boston, MA 02118. FAX: 617-
536-5226; Email: cabraham@acac.edu.

POSTDOCTORAL POSITION

available immediately

on the cellular and developmental functions of
eyeless in Drosophila embryos. The role of eyeless
i.e. subcloning, sequencing and gene expression pre-
ferred. Send Fax C.V. with three referenc-
es to: Dr. J. Giebel, School of Environ-
ment, College of Science and Environ-
mental Science, Indiana University, SPFGH,
100 Potrero Avenue, Building 100,
Room 286, San Francisco, CA 94110.
FAX: 415-

POSTDOCTORAL AND RESEARCH ASSISTANT POSITIONS

POSTDOCTORAL POSITION will involve
the production and analysis of transgenic peanut plants.
Experience with plant tissue culture and transformation
veghento cells desired. Research assistant will be re-
sponsible for DNA isolation, PCR and RFLP analysis,
and DNA sequencing. Send curriculum vitae and names/ad-
dresses to: Peggy Ozias-Akins, Department of Horticulture,
University of Georgia Coastal Plain Experiment Station, Tifton,
GA 31793. Email: ozias@tifton.cpes.uga.edu. An Equal Opportunity Employer.

POSTDOCTORAL POSITION is immediately
available in the Center for Research in Reproductive
Physiology to study the cell biology of spermatogenesis
in the primate using in vivo hybridization, Northern blot
analysis, electron microscopy, and Western blot analysis.
Training in cellular or cell biology is a requirement. Send curriculum vitae and names of three references to: Gary R. Marshall, Ph.D., University of Illinois Children’s Hospital of Pittsburgh, Division of Pedi-
atric Endocrinology, 3705 Fifth Avenue at DeSoto Street, Pittsburgh, PA 15213.

POSITIONS OPEN

POSTDOCTORAL POSITION
C ellular and Mo-
ecular Neurobiology—The Department of Neurobiology has
several positions available to study various as-
psects of molecular, cellular and developmental neurobiol-
y. Some major areas of interest are cell-cell and cell-
substratum adhesion molecules, neurite outgrowth and
nerve regeneration. Specific areas of research include
overexpression, mutation or deletion of adhesion mole-
cules in animals, analysis of genes such as Hox and Pax, their expression in the peripheral nervous system and
their subsequent roles in the formation of morphogenetic pathways during neural development; identification of sig-
nal transduction pathways that the genes programs acti-
ed by adhesion molecule binding. Applicants should have
a strong background in cellular and/or molecular biology.
Send curriculum vitae and three letters of reference to:
Dr. Gary H. Petsche, Chairman, Department of Neu-
robiology, The Scripps Research Institute, 10666
North Torrey Pines Road, SBR14, La Jolla, CA 92037.
An Equal Opportunity Employer.

POSTDOCTORAL TRAINING
Immunobiology of Neuronal and Neoplastic Lymphocytes

This NIH-sponsored program offers training in a wide
variety of cancer related areas of immunology including
immune recognition, regulation, and tolerance; lympho-
ocyte development and differentiation; and role in tumor
immunotherapy. A brochure describing the research
interests of the 24 primary trainers in the program is avail-
able from the Program Office.

Positions are open immediately for Ph.D. graduates and
for those who expect to graduate in the next year. Applic-
ants must be U.S. citizens or permanent residents. Inter-
ested candidates should send curriculum vitae and names of three references to: Dr. Yvonne Paterson, Program
Director, Department of Microbiology, 1035 Blockley Hall, University of Pennsylvania Medical Center, Philadelphia, PA 19104-6076. FAX: 215-898-9557;
Email: paterson@al1.msc.upenn.edu. Women and minorities are equal opportunity af-
firmative action employers.

A POSTDOCTORAL POSITION is available im-
mediately to study the mechanism of apoptosis with special emphasis on the role of proteases and protease inhibitors (J. Exp.
Med., 180: 2113–1994). A candidate should have a back-
ground in cell biology and biochemistry, with some
experience in molecular biology. Areas of research include signal transduction pathways, lipid second
messengers, growth factor receptors, purification and cDNA
cloning of novel proteases involved in apoptosis, and de-
velopment of therapeutics aimed at modulation of apoptosis.
Send curriculum vitae and names of three references to:
Dr. Susan C. Wright, Program Director, Department of Molecu-
lar Medicine, 2462 Wyandotte Street, Mountain View,
CA 94043.

A POSTDOCTORAL POSITION is available im-
mediately to study the regulation of the myeloid protein
genes (NADH dehydrogenase) required for myeloid
and myelomonocytic cells. Expertise in molecular biology is
required. The successful candidate will have the opportu-
nity to apply state-of-the-art biotechnology and work with
a highly interactive group of neuroscientists. Send curri-
culum vitae and three references to: Dr. Raul A. Saavedra,
Department of Anatomy and Neurobiology, Medical College of Pennsylvania, 3200 Henry Avenue, Phila-
delphia, PA 19129. An Equal Opportunity Employer.

A POSTDOCTORAL POSITION is available im-
mediately to study receptor interaction and Ca2+ func-
tion during Platelet-Derived Growth Factor (PDGF) sig-
nal transduction. Relevant expertise in biochemistry/bio-
physics, time-resolved fluorescence spectroscopy, Ca2+
imaging, and caged-compound techniques preferred.
Send curriculum vitae and name of reference to: Dr. Xue F.
Wang, Department of Molecular and Anatomy, University of North Carolina, Chapel Hill, NC 27599-7090. Email: wangfeng@med.unc.edu.

RESEARCH FELLOWSHIP POSITIONS—The Cardiovascular Institute of The Mount Sinai Medical Center has postdoctoral positions available in the molec-
ular, cellular and developmental biology. Training in cell and/or molecular biology essential. Please send curriculum vitae and names of three refer-
cences to: Dr. Edward E. Fishman, Director, Cardiovascular Insti-
tute of The Mount Sinai Medical Center of New York, Box
1030, One Gustave Levy Place, New York, NY 10029.
An Equal Opportunity Employer.
Tenure-Track And Postdoctoral Opportunities.

The following research training opportunities are currently available at the National Institutes of Health.

Tenure-Track Position
Assistant Professor Equivalent

Oral Epidemiology
Deborah M. Winn, PhD

A position is available for undertaking research using epidemiologic methods applied to human populations to study determinants of oral and craniofacial diseases or the utilization of dental treatments, oral and systemic consequences of materials and procedures used in dental practice, oral manifestations of systemic diseases, or oral and systemic health interrelationships. Applicants with a strong record of scientific achievement should submit a curriculum vitae, a summary of research goals, copies of selected publications, and three (3) letters of reference by October 15, 1995. Division of Epidemiology and Oral Disease Prevention (OE-95), NIDR, Building 45, Room 4AS-13E, 45 CENTER DR MSC 6401, BETHESDA MD 20892-6401.

Postdoctoral Positions

Cognitive Neuroscience and Brain Imaging
Alex Martin, PhD

Visual object processing, semantic memory, and language are being investigated in the normal human brain using positron emission tomography and magnetic resonance imaging. Patients with Alzheimer’s disease or related disorders are also available for study. Applicants must have a PhD in psychology, cognitive science, or related field, and have less than five years of postdoctoral experience. Experience with functional brain imaging is desired. Laboratory of Psychology and Psychopathology (OE-95), NIMH, Building 10, Room 4C110, 10 CENTER DR MSC 1366, BETHESDA MD 20892-1366.

Developmental Gene Expression and Chromatin Structure
Ann Dean, PhD

Embryonic globin gene expression is being studied, especially as it relates to chromatin structure. Approaches include in vitro and in vivo analysis of functional promoter and enhancer elements, in vitro transcription of DNA templates assembled into nucleosomes, and structural studies using minichromosomes. Candidates must have training in molecular or cell biology and an interest in the role of chromatin structure in the molecular basis of development. Applicants must have less than five years of postdoctoral experience. Laboratory of Cellular and Developmental Biology (OE-95), NIDDK, Building 6, Room B1-08, 6 CENTER DR MSC 2715, BETHESDA MD 20892-2715.

Neuroanatomy
Mortimer Mishkin, PhD

The functional neuroanatomy of the central auditory system is being studied in the rhesus monkey. The research focus is on information flow in auditory perception, learning and memory using a variety of neuroanatomical, neurophysiological and behavioral techniques. A strong background in neuroanatomy is particularly desirable. Applicants must have less than five years of postdoctoral experience. Laboratory of Neuropsychology (OE-95), NIMH, Building 49, Room 1B80, 49 CONVENT DR MSC 4415, BETHESDA MD 20892-4415.

Signal Transduction and Pattern Formation
Alan Kimmel, PhD

The role of the cAMP receptors and downstream pathways in control of Dictyostelium development and regulated gene expression is being studied. Approaches include knock-out transformation, two-hybrid screens, transcription factor analysis, and positional cloning. Experience in molecular biology, protein chemistry, or receptor biochemistry is essential. Applicants must have less than five years of postdoctoral experience. Laboratory of Cellular and Developmental Biology (OE-95), NIDDK, Building 6, Room B1-22, 6 CENTER DR MSC 2715, BETHESDA MD 20892-2715.

Toxicokinetic Modeling
Christopher J. Portier, PhD

Toxicokinetic models are being studied as a means of relating the response of laboratory animals and humans to exposure to environmental toxins. Research relating to the utility of these models for the design and analysis of laboratory and epidemiology studies and for risk estimation is planned. Applicants should have a strong background in computer modeling, some experience in modeling biological systems and less than five years of postdoctoral experience. Laboratory of Quantitative and Computational Biology (OE-95), NIEHS, P.O. Box 12233, MD A#-06, Research Triangle Park, NC 27709.

Additional Opportunities

The NIHEDNET Bulletin Board POSTDOC (fellowship positions) and TENURE (tenure track positions) conferences are accessed via a modem (301-402-2221 or 800-358-2221 with parameters set at 7, Even, 1) or the Internet using Telnet (sylbur,cu.nih.gov) or the Wide World Web (URL: telnet://sylbur,cu.nih.gov). When connected to NIH, key in .out 100 for terminal emulation, F5E for initials, and AJLI for account number. To view tenure track positions, quit the POSTDOC conference and join the TENURE conference.

An electronic version of the Postdoctoral Research Fellowship Opportunities catalog is accessed via the Internet using either the Gopher Information System (gopher.nihs.gov) or the World Wide Web (URL: http://www.nih.gov). When connected with Gopher, select Grants and Research Information and then NIH Office of Education. When connected with WWW, select Grants and Contracts and then NIH Office of Education. If you have further questions, please contact the NIH Office of Education, Building 10, Room 1C129, 10 CENTER DR MSC 1158, BETHESDA MD 20892-1158, Phone 301-496-2427, Fax 301-402-0483.

To Apply

If you hold a graduate doctoral degree (e.g., PhD, MD/PhD) or a professional degree (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.

National Institutes Of Health
Office Of Education
The NIH is an Equal Opportunity Employer
POSTDOCTORAL POSITIONS

Thomson Jefferson University has three POSTDOCTORAL POSITIONS available immediately for studies related to cardiac maturation: (1) the alternation contracting and neuronal signal transduction mechanisms. 1. To investigate the effects of alcohol and anesthetics on glutamate receptor signaling in developing brain experience in neuronal signal transduction mechanisms, preparation and maintenance of primary neuronal cultures and preferably fluorescence imaging is required. Respond to Dr. Thomas A. Ross by the address below. 2. To study the interactions of cocaine and alcohol with the pathways of excitation-contraction coupling in isolated cardiomyocytes. 3. To conduct a collaborative study with Dr. Joshua R. Berlin investigating basic mechanisms of Ca2+ release in heart muscle cells. Candidates for position 2 should have research experience in studies of cardiac cell function, electrophysiology and/or confocal microscopy, and for position 3, additional experience in quantitative image analysis is desired. Respond to: Prof. Andrew P. Thomas at the address below. A doctoral degree is required for all three positions. Applications, including curriculum vitae, summary of research experience and names and addresses of references, should be sent to the Department of Pathology, Anatomy and Cell Biology, Thomas Jefferson University, Room 271JAH, Philadelphia, PA 19107. Thomas Jefferson University is an Equal Opportunity Employer.

POSTDOCTORAL POSITION

Alzheimer's Disease Research

Scios Nova is a biopharmaceutical company engaged in the discovery, development, and commercialization of novel human therapeutic agents. Our R&D efforts focus on the treatment of major diseases, primarily in the areas of cardio-renal disease and inflammation.

POSTDOCTORAL POSITION is available to study the molecular biology of genes involved in the pathology of Alzheimer's Disease. This research would add to an ongoing research program in this area.

The candidate should have significant experience in molecular and mammalian cell biology. Background in neurobiology is desirable but not essential. Please send curriculum vitae, including contact information for three references, to:

Dr. Barbara Cordell
Scios Nova Inc.
3450 Bayshore Parkway
Mountain View, CA 94043
Equal Opportunity Employer

POSTDOCTORAL POSITION

Molecular/Biochemical Pharmacology

Texas Children's Cancer Center

POSTDOCTORAL POSITION is available immediately in the pharmacology section of Texas Children's Cancer Center. This is a laboratory based clinical research program that focuses on the pharmacokinetics/pharmacodynamics of antineoplastic agents, CNS pharmacology, and hepatic drug metabolism. Investigation of topoisomerase inhibitors, taxane derivatives, and antimitobolites are specific areas of interest. Applicants must have a Ph.D., Pharm.D., or M.D./Ph.D. with laboratory experience in biochemical and molecular techniques. Send a curriculum vitae and names of three references to: Dr. Susan Blaney/Jacqueline Plotkin, Texas Children's Hospital, mail station 3-3320, Houston, TX 77030-2399. Baylor College of Medicine is an Affirmative Action/Equal Access/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIPS

Departments of Molecular and Cellular Biology and Organismic and Evolutionary Biology, Harvard University. A limited number of postdoctoral research positions become available from time to time. Applications are invited from individuals who have received research grants awarded to faculty members and are ordinarily for one year, sometimes renewable, other appointments are for up to two years. For all postdoctoral fellowships, a list of faculty members who may have postdoctoral positions available, write to the respective department office (do not send applications): Molecular and Cellular Biology, Level 2, 16 Divinity Avenue, Cambridge, MA 02138; Organismic and Evolutionary Biology, 26 Oxford Street, Cambridge, MA 02138; Harvard University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE

SENSORY NEUROBIOLOGY

A two to three year POSTDOCTORAL POSITION is available to study signal transduction mechanisms in free nerve endings. Current research projects involve electrophysiological, molecular biological, pharmacological, and bioengineering approaches to look at the neuronal components of mechanisms of cold, mechanochanical, and chemical pain transduction. A Ph.D. in neurophysiology, neurobiology, biophysics, bioengineering, or a related field is required. Salary range is $26,000 to $32,000 depending on experience. Applicants should send a curriculum vitae and the names of three individuals who may be contacted for references to: Darrell L. Tanelian, Ph.D., M.D., Director, Pain Research Program, Department of Anesthesiology and Pain Management, University of Texas, Southwest Medical Center, 5323 Harry Hines Boulevard, Dallas, TX 75235-9068. University of Texas Southwest Medical Center is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOW

Department of Obstetrics and Gynecology

Postdoctoral fellowships will be available in the areas of: 1) maturation of receptors, 2) signaling mechanisms and cell functions and 3) developmental cell biology. Applicants should have a Ph.D. in biochemistry, pharmacology, or cell biology. Experience in using receptor or cell biology techniques and in conducting research is required. Please send curriculum vitae and the names of three references to: Dr. Thomas R. Wilson, M.D., Eye Institute and Department of Cell Biology/A31, Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44195. Cleveland Clinic Foundation is an Equal Opportunity/Affirmative Action Employer.

LIVING SKIN BANK

Research Associate

UH-5-6016-95-07-8

The Living Skin Bank has an ongoing research program on skin differentiation and skin biology: A RESEARCH ASSOCIATE position is now available for a Ph.D. in a biologic science to participate in these studies. Required is two years of experience in two of the following areas: cell biology, molecular biology, and/or biochemistry. Preferred is specific experience in studying the role of peptides and other small molecules on cell metabolism, gene expression, signal transduction and/or population dynamics.

Please submit résumé to: University Hospital, Human Resources, UH-5, Room 106, Stony Brook, NY 11794-8300. An Affirmative Action/Equal Employment Opportunity Employer. If you need a disability related accommodation, please call the University Hospital Human Resources department at 516-444-2525.

POSTDOCTORAL RESEARCH ASSOCIATE

To conduct fundamental research and study on the biochemical and molecular basis of baculovirus envelope protein structure, function, synthesis, trafficking and assembly into viral-induced membrane vesicles. Successful applicant will study and apply most aspects of recombinant nucleic acid and baculovirus expression vector technologies. For studies of protein structure pursuant to function, emphasis will also be on recombinant and expression vector technologies. Position may start immediately or within the next six to nine months. Starting at $25,000, negotiable commensurate with experience. Please send résumé and three references to: Dr. Max Summers, Center for Advanced Invertebrate Molecular Sciences, Texas A&M University, Department of Entomology, College Station, TX 77843-2475. Texas A&M University is an Affirmative Action/Equal Opportunity Employer.

STRUCTURAL AND COMPUTATIONAL BIOLOGISTS

A RESEARCH SCIENTIST position at all levels is available for a structural biologist with proven record in determining macromolecular structures in solution by state-of-the-art NMR techniques. Excellent research support is available. POSTDOCTORAL POSITIONS are also available in all areas of NMR, MRI, X-ray crystallography and Computational Chemistry. We currently have the following facilities: an AMX600, an AMX400WB with solid state and microimaging capabilities, a BIO-SPEC 47/40 animal MRI system, two X-ray diffraction cameras with image plate and area detectors and excellent computational facilities. Send a complete curriculum vitae, a research proposal (optional for postdoctoral applicants) and three letters of references to: Dr. Tai-huang Shih, Department of Structural Biology, Institute of Biomedical Sciences, Academia Sinica, Nankang, Taipei 11529, Taiwan, R.O.C. FAX: 886-2-785-3569; Email: BMTHH@cvax.sinica.edu.tw.

LIVE IN JAPAN

International Education Services (IES) invites applicants for a one-year assignment in Japan teaching English to Japanese staff at major corporations, pharmaceutical companies, and government agencies. Professional work experience required. Japanese and excellent conversational or written Japanese are required. Send resume to: IES, Rose Hilla Building, 22-14, Higashi 2-chome, Shibuya-ku, Tokyo 150 Japan. Telephone: 81-3-3498-7101; FAX: 81-3-3498-7113.

ELECTRONICS DESIGN

Small, growing manufacturer of a diverse product line of scientific and industrial calibration and measurement instrumentation, seeks a talented DESIGN ENGINEER. Strong circuit design and programming skills required. Cell/Jr. position. Salary and benefits. Additional salary requirements and all other relevant data to: Science Box No. 59, 1333 H Street, Room 814, NW, Washington, DC 20005.
Research Without Boundaries

That's what you'll find at Unilever Research. As one of the world's largest consumer products companies, we offer hundreds of brands and thousands of products that are sold in more than 100 countries. And the driving force behind them all is scientific research.

Since we introduced our first product in 1902, Unilever scientists have developed a constant flow of highly innovative products and technologies. Our international commitment to scientific breakthroughs in skin research has resulted in our world-class Skin Care Research Center in Edgewater, N.J.

Here, we've brought together scientific experts from many disciplines including Cell and Molecular Biology, Physiology, Colloid and Surface Science, Biophysics, and Emulsion and Composite Materials Science. By combining this cross-disciplinary knowledge, we're building upon our understanding of skin biology to create superior skin technologies that will continue to improve people's lives.

To expand our scientific frontiers even further, we have a current need for more individuals who thrive on scientific research, its challenges and its rewards. The following dynamic positions are now available:

**MORPHOLOGIST/BIOCHEMIST**

Participate in a state-of-the-art research program focused on evaluating morphologic and biochemical changes in the skin. Position requires a BS/BA in a biologically-related field as well as an understanding of cell biology and histology, and PC familiarity. Experience in tissue sectioning, image analysis, immunohistochemistry and computer programming is desirable.

**RESEARCH BIOLOGIST**

Assist in the design, execution and interpretation of clinical trials. To qualify, you must have a BS/BA, preferably in the biological/chemistry sciences. Experience in a clinical research setting, a background designing/writing protocols/reports and some knowledge of statistics are pluses.

In return for your expertise, we offer an excellent salary, a comprehensive flexible benefits package, retirement and savings plans, tuition reimbursement, and a progressive work environment that's conducive to challenge and career advancement. For consideration, send your resume indicating position of interest, to: Ms. Jane Goodwin, Human Resources, Unilever Research U.S., 45 River Road, Edgewater, NJ 07020. Equal Opportunity Employer.

---

Molecular Neurobiology/Neurodegenerative Disease

A FACULTY POSITION is available at the junior or senior level in molecular neurobiology, with particular interest in neurodegenerative and neuromuscular disease, signal transduction mechanisms, including synaptic function, and the role of the neuronal cytoskeleton in pathogenesis. Other areas which form and complement existing research strengths in cell and neurobiology will be considered; the use of molecular, genetic and transgenic approaches are also desirable. Appointments carry institute backed salary guarantees and liberal start-up packages for personnel, equipment and operating costs.

Submit a detailed curriculum vitae, a one-page summary of research interests and future research plans, and three letters of recommendation to:

Dr. Richard Vallee, Scientific Director
c/o Human Resources - Search 1The Worcester Foundation for Biomedical Research222 Maple AvenueShrewsbury, MA 01545

---

Research Scientist

Plant Gene Expression

DuPont Central Research is seeking a highly motivated scientist to join a research program aimed at understanding and manipulating factors affecting transgene expression in plants. The successful candidate will join the Plant Gene Expression Group, which includes scientists from Central Research and from Agricultural Biotechnology at the DuPont Experimental Station in Wilmington, Delaware.

Areas of research experience may include transcription factor/promoter interactions, chromatin structure, or other topics relevant to gene expression. Previous work in these areas need not have focused on plant systems. Minimum requirements for the position include a Ph.D. and postdoctoral research experience.

Interested candidates should forward their resumes and a list of references to: DuPont Human Resources, PSS-0111, Wilmington, DE 19898 or you may fax to (800) 631-2206, Attn: PSS-0111. Applications received by September 15th will be assured consideration. An Equal Opportunity Employer.
Abstract Deadline: Sept. 7, 1995  Exhibits & Workshops

**Gene Regulation, Structural Biology, Molecular Immunology, Gene Therapy:** S. Forsberg, La Jolla; S. Chang, San Diego; W. Chazin, La Jolla; A. Kaushik, Guelph; D. Casimiro, La Jolla

**Yeast Expression and Two-Hybrid System:** E. Golleris, Philadelphia; P. Colas, B. Cohen Cambridge; Li Zha, Palo Alto; A. Ghosh, Lincoln; S. Gangloff, New York; M. Pilgrim, Stanford, E. Komives, La Jolla

**Symposium on the Molecular Biology of Ebola and Outbreaking Viruses:** W. Taylor, Athens; A. Sanchez, Atlanta; K. Anderson, Ft. Detrick

**Plant Extinction/A New DNA Bank:** H. Koopowitz, Irvine; I. Rubenstein, R. Dana, San Diego

**Sequencing, DNA and Germplasm Preservation, Advances in Technology:** M. Morimyo, Tokyo; A. Chemers, Russian Academy of Sciences; M.A. Northrup, Livemore; J. Miller, Carlsbad; O. Ryder, San Diego; F. Molina, Rockville; E. Roos, Ft. Collins; C. Simon, Pullman

**DNA Collections, Databases, World-Wide-Web:** S. Beckstrom-Stemberg, Beltsville; B. Sherman, D. Davy, Berkeley; M. Polacco, Columbia; E. Reardon, R. Jain, La Jolla

**Agricultural Biotech:** M. Helm, La Jolla; T. Dunahay, Denver; J. Sherman and J. Frank, San Marcos; J. Chambers, Washington, D.C.; R. Lilley and M. Shariati, Wollongong


The meeting is being sponsored by PGG/Ambiocom, San Diego, CA.

Contact: 619-945-3231
rcdana@greengene.com
http://www.bcklabs.wisc.edu/ebola/ebola-conf-sep-95.html

AAAS MEMBERS SPECIAL FEE: Students, Post-Docs, $245; Academic, Government, Non-Profit $345, Commercial $595. Non-AAAS Members add $150. Accommodations extra. Location of meeting Lake San Marcos Resort, 1025 La Bonita Dr., Lake San Marcos, San Diego, CA 1-800-447-6556. Master Charge. Visa, or check payable to MBC-95. Mail to MBC Registration, Box 927461, San Diego, CA 92192 FAX: 619-722-817

---

**Postdoctoral Positions in Biochemistry**

*University of Missouri-Columbia*

| Dr. Derek Cash | Dr. Joseph Polacco |
| Neurotransmitter receptors | Genetics of plant nitrogen assimilation |
| Dr. Susan Deutscher | Dr. Thomas Quinn |
| Antibody engineering, nucleic acid-protein interaction | Design & synthesis of radiolabeled antibodies and peptides |
| Dr. David Emerich | Dr. Douglas Randall |
| Symbiotic nitrogen fixation | Plant protein kinases |
| Dr. Milton Feather | Dr. John Rogers |
| Protein glycation and Maillard reaction | Function of a vacuolar sorting receptor in plant cells |
| Dr. William Folk | Dr. Cleopas Samudzi |
| Control of gene expression in plants and animals | Macromolecular crystallography on protein-protein and protein-DNA complexes |
| Dr. Tom Guilfoyle | Dr. Frank Schmidt |
| Auxin-regulated genes; RNA polymerase | RNA structure and function |
| Dr. Gretchen Hagen | Dr. Krishna Sharma |
| Auxin-regulated genes | Protein modification and cataractogenesis |
| Dr. Mark Hannink | Dr. Roger Sunde |
| Transcription factors and oncogenesis | Selene protein regulation and molecular biology |
| Dr. Dennis Lubahn | Dr. Suresh Tyagi |
| Estrogen receptor-minus mouse characterization | Regulation of proteinases and antiproteinases |
| Dr. Mark Martin | Dr. Gary Weisman |
| Transcription factors and gene regulation | Structure and function of recombinant Ppuroinucleosporins |
| Dr. Thomas Mawhinney | |
| Cystic fibrosis and glycoprotein genetics | |
| Dr. Roy Morris | |
| Cytokinin biosynthesis and control | |
| Dr. Charlotte Phillips | |
| Inherited connective tissue disorders and the regulation of extracellular matrix | |

Applicants should send CV and names of two references to:
Postdoctoral Application, Department of Biochemistry, 117 Schweitzer Hall, University of Missouri, Columbia, MO 65211

Specify research interest

_The University of Missouri is an Equal Opportunity/Affirmative Action Employer_
Research Scientist

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.

We currently seek a Research Scientist to join our new anti-inflammatory drug discovery team at our BOULDER, CO facility.

Qualified candidates will have a Ph.D. in Biochemistry, and a solid background in protein purification and characterization as well as mammalian cell culture. Industry experience is preferred. Excellent communication skills and the ability to work in a multi-disciplinary team environment are essential.

We recognize that diverse perspectives are a key factor in the process of discovery.


EEO/AA Employer M/F/D/V

THE UNIVERSITY OF CALIFORNIA, SAN DIEGO, DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY

invites applications for a tenure track position in Biochemistry at the Assistant Professor level. Candidates must have a Ph.D. and a demonstrated ability for creative research and teaching at the undergraduate and graduate levels. The committee is particularly interested in receiving applications from chemists, biochemists, structural biologists, and molecular biologists with research interests in signal transduction processes, cell-cell interactions, cell proliferation and growth control, receptors, cell adhesion and other immunologically relevant molecules, or structure and function of other important biomolecules. The appointee would have the opportunity to interact with the UCSD Cancer Center which has programs in molecular virology, immunology, glycobiology, growth control, and cancer genetics. Salary commensurate with qualifications and based on University of California pay scale. Position subject to availability of funds. Candidates should send a curriculum vitae, a list of publications, reprints of up to five representative papers, a summary of research plans and names and addresses of three references to: Chair, Biochemistry Search Committee - S2-997, University of California, San Diego, Department of Chemistry and Biochemistry - 0332, La Jolla, CA 92093-0332. Prompt response is recommended but all applications received by 01 Dec 95 or until open position is filled will be assured full consideration. The University of California is an equal opportunity/affirmative action employer.

Research Scientists

The R. W. Johnson Pharmaceutical Research Institute (RWJPRI) performs R&D activities for the Johnson & Johnson pharmaceutical companies: Cilag, Ortho-McNeil Pharmaceutical, Ortho Biotech and Ortho Dermatological. The La Jolla, CA, division of RWJPRI is engaged in a novel protein drug target identification program using state-of-the-art molecular biology technology. The Protein Expression/Assay Development Groups express novel protein drug targets and develop functional and high-throughput assays. We are seeking highly qualified researchers for the following positions:

**SCIENTIST**

The successful candidate will develop assays to characterize the function of novel protein drug targets and convert functional assays into high-throughput screens. Qualified candidates will have a Ph.D. in cell biology, biochemistry or molecular biology and 0-5 years postdoctoral training. Experience in several of the following assays is required: cell proliferation and differentiation assays, receptor binding and second-message assays, gene/protein expression assays (RNAse protection assay, reporter gene assay, and metabolic labeling assay, etc.), enzymatic assays, immunoassays. Flexibility to work on diverse projects is required.

**SENIOR ASSOCIATE SCIENTIST**

The successful candidate will be involved in characterization of novel protein drug targets as well as in high-throughput assay development and validation. Qualified candidates will have an MS in biological science with 5+ years experience in drug discovery related research. Strong skills in protein/enzyme characterization, enzymatic assays, tissue culture and transfection, cell-based assays, receptor-based assays, and use of automated equipment are highly desired.

These positions are provided an excellent research environment, career growth potential, and a competitive compensation and benefits package. Please submit your curriculum vitae to: Human Resources Manager, R. W. Johnson PRI, 3535 General Atomics Court, Suite 100, San Diego, CA 92121. An Equal Opportunity Employer, M/F/D/V.

THE R.W. JOHNSON PHARMACEUTICAL RESEARCH INSTITUTE

a johnson & johnson company
The Queen’s University of Belfast

**LECTURESHP IN PROTEIN ENGINEERING**

School of Biology and Biochemistry
Centre for Peptide and Protein Engineering

Applications are invited for this post tenable from 1 October 1995 or such other date as may be agreed, but no later than 1 January 1996, to develop a strong research programme in the study of protein function to enhance the research activities of the School.

Applicants must have an Honours Degree or equivalent together with a PhD or equivalent in Biochemistry, Molecular Biology or Allied subject, experience demonstrated by at least four publications in peer reviewed international journals of applying recombinant DNA methods to the study of Protein Function, ability to foster the increased application of Molecular Biological techniques to the on-going studies of the Centre and to develop new research themes. Some teaching at tertiary level and proven ability to obtain external funding for research are desirable.


Informal enquiries to Dr. Brian Walker, Division of Biochemistry, School of Biology and Biochemistry (ext 2047/2117).

Salary scale: Lecturer Grade A: £15,154 - £19,848, or Grade B: £20,677 - £26,430 with eligibility for USS. Assistance with relocation as appropriate.

Further particulars are available from the Personnel Officer, The Queen’s University of Belfast BT7 INN (01232) 245133 ext 3044/3246 or FAX (01232) 324944/310629. Closing date: 8 September 1995.

The University is a charity, established in 1845 to advance education. Committed to an Equal Opportunities policy and selection on merit, it welcomes applications from all sections of the community. Under its affirmative action programme it particularly welcomes applications from women for academic posts.

---

**Readership in Botany**

Applications are invited for a Readership in the Department of Botany (Ref. RF-95/96-4), tenable from January 1996. Appointment will be made initially on a three-year fixed-term basis.

Applicants should have a PhD with a strong record of research activity and publications as well as some administrative experience and qualities of leadership. The appointee should be able to teach all the three areas of Botany, Food Science and Plant Biotechnology.

Those who have submitted applications in response to the recent advertisement of Reader in the Department (Ref. RF-94/95-20) with a closing date of 11 November 1994 need not re-apply.

**Annual salary** (under-review) [non-superannuable but attracting 15% (taxable) terminal gratuity] is on a 9-point scale, with starting salary depending on qualifications and experience. HK$903,900 - HK$1,118,468 (approx US$86,930 - US$115,950; US$ equivalents as at 26 July 1995).

At current rates, salaries tax will not exceed 15% of gross income. Housing at a charge of a percentage of salary, currently 7½%, children’s education allowances, leave, and medical benefits are provided.

**Further particulars and application forms** may be obtained from the Appointments Unit, Registry, The University of Hong Kong, Hong Kong (fax: 862) 2559 2068; E-mail: APPTUNIT@HKUVM1.HKU.HK). Further particulars are also available by E-mail as "LISTERBEB@HKUVM1.HKU.HK" (specify "get appointment filelist" for list of vacant posts).

Closes 15 September 1995.
DEVELOPMENTAL BIOLOGY/EVOLUTION

The Department of Biological Sciences invites applications for tenure-track positions at the full, associate and assistant professor level. We are seeking faculty members with their primary research interest in molecular genetic analysis of development and evolution. We are particularly interested in individuals using molecular genetic analysis of development to address evolutionary questions, although other areas will be considered. The department is undergoing a significant expansion and plans to make evolutionary development an area of emphasis. We will be recruiting in complementary areas in the immediate future.

Substantial space and start-up funds will be made available to the successful candidates. The department occupies a new seven-story research building with animal rooms, greenhouses, microscopy facilities, Drosophila support facilities, and a molecular biology core facility.

Applicants must have demonstrated excellence in research and the potential for the highest quality teaching. Candidates will be expected to establish and maintain an extramurally funded research program and participate in both undergraduate and graduate teaching programs.

Women and minority candidates are encouraged to apply. Review of candidates will begin immediately and continue until all positions are filled.

Send curriculum vitae, a description of current and long-range research plans, three representative papers and the names of four references to:

Jack Lilien  
Chair, Department of Biological Sciences  
Wayne State University  
Detroit, MI 48202

Wayne State University is an equal opportunity/affirmative action employer.  
Wayne State University-People working together to provide quality service.

All buildings, structures and vehicles at WSU are smoke-free.

GLOBAL CAREER OPPORTUNITIES

DEPARTMENT OF ZOOLOGY

The Department of Zoology is one of the largest Departments in the Faculty of Science with 25 academic staff and over 100 postgraduate students. It has close ties with the Departments of Marine Biology and Botany and Tropical Agriculture, together forming the School of Biological Sciences. The Department is a major participant in two Collaborative Research Centres - the CRC for Aquaculture and the CRC for Tropical Rainforest Ecology and Management. Applications are invited for the following positions:

LECTURER/SENIOR LECTURER - AQUACULTURE

Reference No: J195135

Aquaculture is a major program within the Department and is offered as a three year BSc and a four year Bachelor degree. Postgraduate degrees, (Honours, Diploma, MSc and PhD) are also offered. Teaching and research focuses on tropical aquaculture, especially on nutrition, microencapsulation, endocrine regulation of growth, fishes, tropical bivalves and redclaw crayfish. There is strong potential for the development of research on penaeid prawn culture. Several freshwater and seawater recirculating systems are available on campus, and there are sea water facilities at the University's Orphus Island Research Station.

The appointee will be required to teach in their area of expertise at third and fourth year levels, may be required to teach introductory aquaculture at second year level and contribute to other undergraduate teaching in Zoology. Postgraduate supervision is also required.

Applicants must have a PhD in Zoology or other relevant discipline and have a strong research record. Applicants with interest in the development and application of advanced technologies for aquaculture are encouraged to apply. Applications should include a teaching portfolio. For appointment as Senior Lecturer substantial appropriate experience will be required.

For further information contact Professor John Lucas, telephone 61 77 814540, fax 61 77 815511.

LECTURER - ZOOLOGY

Reference No: J195136

The appointee will be required to teach general zoology at 1st or 2nd year levels and in their areas of expertise at 2nd and 3rd year levels, and will be required to undertake postgraduate supervision (Honours, Diploma, MSc and PhD) as appropriate.

Applicants must have a PhD in Zoology or other relevant discipline and have a strong research record, with interests that would enhance or complement the main research focus of the Department in whole animal biology, especially population and community ecology, entomology, wildlife biology, animal behaviour or aquatic ecology. Complementary skills in and the ability to teach biometrics or genetics would be an advantage.

The provision of a teaching portfolio would be an advantage.

For further information contact Associate Professor Richard Pearson, telephone 61 77 814540, 61 77 815511 or via email at Richard.Pearson@jcu.edu.au

Tenure: The positions are available from January 1996 for a probationary period of up to three years with provision for conversion to tenure.

Salary: Senior Lecturer (Academic Level C) - A$51692 - A$59065 a year. Lecturer (Academic Level B) - A$42198 - A$50111 a year. Commencing salary will be according to qualifications and experience.

Applications stating qualifications, experience and telephone contact number and the names, addresses and fax numbers (if any) of three referees should be forwarded to the Recruitment Officer, Human Resources Division, James Cook University of North Queensland, Townsville Q 4811, Australia. Phone 61 77 81 4880, fax 61 77 81 5644. Applications close on 29 September 1995.

Equal Opportunity in Employment is University Policy

The University has a "Smoke-Free Working Environment" Policy
REQUEST FOR PROPOSALS

In Vitro Genotoxicology and Epidemiology Studies
Assessing Effects of Radiofrequency Radiation

Wireless Technology Research, L.L.C. (WTR) has issued an omnibus RFP soliciting proposals from investigators to do tests on radiofrequency radiation using bacterial and in vitro mammalian mutation assays and a chromosome aberration assay in human lymphocytes. The omnibus RFP also requests proposals for a series of specific epidemiology studies including cohort and case-control studies. The RFP includes extensive background on the WTR program and the rationale for scientific decision making. Applicants are required to show experience and to consider specific elements detailed in the full RFP document. The deadline for proposals is November 1, 1995. For full RFP, write to: WTR, Attn: Omnibus, 1711 N Street, N.W., Suite 200, Washington, DC 20036. FAX: 202-833-2801.

SYMPOSIUM

SYMPOSIUM: Therapeutic Antibody Technology 95

COMPUTER MARKETPLACE

STATISTICAL SOFTWARE
Announcing NCSS 6.0 for Windows: an accurate, easy to learn, statistical system. Includes t-tests,ANOVA, chi-square, survival analysis, regression analysis, multivariate analysis, graphics. Data may be imported from over 30 database and spreadsheet formats. Output may be read by your Windows word processor. Thousands of users. $309. Ask for Dr. Hintze (PhD Statistician) at (800) 888-6109. Fax (801) 549-2307. E-mail address: ncss@ix.netcom.com. Web page: WWW.ICW.COM/NCSS.

Circle No. 14 on Readers’ Service Card

MARKETPLACE

Human Microvascular Cells Complete Cell System
NOW ONLY $350
NEW DEFINED ANIMAL ENDOTHELIAL CELL SYSTEMS
Porcine Aortic Endothelial Cell System
Bovine Aortic Endothelial Cell System
800-697-1211

Circle No. 23 on Readers’ Service Card

Circle No. 1 on Readers’ Service Card

The Peptide Engineering Specialist
PeptidoGenic
1-800-533-4363

Circle No. 13 on Readers’ Service Card

Happy Endings

World leader in Synthetic DNA and Peptides

BIO-SYNTHESIS

AIIMITOF'S CUSTOM DNA
$1.50 per base/50nmole
* No set-up Charge / No Rush Charge
* Shipped within 48 hours
1-800-5-AIIMITOF
Fax 617-782-9352

Circle No. 11 on Readers’ Service Card

Circle No. 26 on Readers’ Service Card

Circle No. 21 on Readers’ Service Card

Particle Size Standards

NBS traceable calibration standards and controls. Large assortment of diameters from 0.02 to 2000 μm. microspheres of polystyrene, glass and fluorescent materials. Free catalog available. Toll Free 800-334-3883.

In Calif. 415-424-1177, 415-424-1158

Duke Scientific Corporation
P.O. Box 5005
Palo Alto, CA 94303

Circle No. 8 on Readers’ Service Card

Express Peptides

15 mg in 5 days
$818 per residue
Research Genetics, Inc.
1-800-533-4363

Circle No. 3 on Readers’ Service Card
The world of SCIENCE...Now on-line: Now you can access SCIENCE and these exclusive features on the SCIENCE World Wide Web home page with just a click of your mouse:

- **SCIENCE On-line**: Read the SCIENCE Table of Contents, the SCIENCE Editorial and This Week in Science the same day that the printed version is published!

- **Beyond the Printed Page**: This exclusive on-line feature includes special interactive projects such as, Conduct in Science, important data and a constantly evolving collection of electronic information that pioneers new territory beyond the printed pages of SCIENCE.

- **SCIENCE JOBNET**: With SCIENCE JOBNET: On-line classified advertising, you can survey the latest in career opportunities from around the world each week. You'll also find additional on-line career related articles and information.

- **SCIENCE Electronic Marketplace**: Do you need the latest scientific product information from top companies? You'll find just what you're looking for in the Electronic Marketplace.

Whether you want to take part in interactive discussions, look for a new job or review the latest product information, look to the SCIENCE World Wide Web page first. Take advantage of these exclusive on-line features from the journal revolutionizing the world of scientific publishing: SCIENCE.

SCIENCE WWW Address: http://www.aaas.org
Research Genetics eliminates the problem of having to choose between high quality, low-price and fast delivery in peptide production, with our express peptide service. With this service, we provide 15-40mg of 10-20mer peptides in 5 days for $18 per residue with no setup charge. The peptide you receive will be fully deprotected, lyophilized, and packed under argon. Research Genetics offers a variety of custom options such as biotinylation, purification, acetylation, and amidation. Please contact us before placing your order to have these options more fully explained.

Research Genetics is proud to provide an economical 'start-to-finish' peptide antibody service. Your peptide will be synthesized utilizing the latest FMOC solid phase methods with MAP resin technology which increases the antigenic response. Monoclonal antibodies will be delivered in 24 weeks costing $8,500, and polyclonal in 16 weeks costing $1,195. When requested, first bleed serum from polyclonal antibodies is available upon collection.