system. The information in the book can help with the necessary analysis.

The book includes numerous high-quality illustrations and extensive references to the literature. Given the emphasis placed by most of the contributors on ecology, biogeographic relationships, and evolution, I believe Darwin would delight in reading it. Contemporary workers with interests in marine invertebrate biology and insular biotas will want to have ready access to it.

Peter W. Glynn
Division of Marine Biology and Fisheries, Rosenstiel School of Marine and Atmospheric Science, University of Miami, Miami, FL 33149–1098

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POSITIONS OPEN

BIOLOGY: The University of North Alabama announces the availability of a tenure-track position in the Department of Biology, beginning Fall 1992 or 11 January 1993 at the INSTRUCTOR or ASSISTANT PROFESSOR rank; master's degree required, Ph.D. preferred. Responsibilities include undergraduate teaching in the areas of molecular biology and/or introductory biology, student advising and research related to the specialty area. Salary commensurate with degree, rank and experience. Applications are encouraged. Submit a letter of application by 12 June 1992 accompanied by curriculum vitae (including transcripts) and the names, addresses, and telephone numbers of three references: to: Dr. Frank Chester, Professor and Chair, Department of Biology, University of North Alabama, Florence, AL 35663-0001.

ASSISTANT PROFESSOR: IMMUNOLOGIST

The Department of Ophthalmology and Visual Sciences at Washington University School of Medicine is inviting applications for a tenure-track assistant professor in ocular immunology. We are seeking a cellular immunologist with experience in viral and/or transplantation immunology. The successful candidate will develop and maintain an extramurally funded research program and have the opportunity with our cadre of established investigators studying ocular models of immunologic and infectious disease. Please send curriculum vitae, summary of research interests, and three references to: Dr. J. P. Pepose, M.D., Ph.D.; Washington University School of Medicine, Department of Ophthalmology; Box 8096, 660 South Euclid Avenue, St. Louis, MO 63110.

Washington University is an Equal Opportunity/Affirmative Action Employer. M/F/H/V

ECOLOGY: ASSISTANT PROFESSOR. The Department of Biology, State University of New York (SUNY) College at Fredonia invites applications for an unstated tenure-track position opening for August 1992. Qualifications include a Ph.D. in biological sciences and a commitment to undergraduate instruction and research. The major teaching responsibility will be our general ecology course for biology majors. Specialty area is open, but ability to offer field courses is highly desirable. The college has a student population of about 4500 undergraduates and is located near Lake Erie, 40 miles southwest of Buffalo. The department has ten faculty and about 250 undergraduate majors in biology, chemistry, environmental science, and psychology. M.S. degrees are offered in biology and biology education. Applications should include curriculum vitae, three letters of recommendation, and a letter explaining teaching and research interests. Send applications to: Search Committee, Department of Biology, SUNY College at Fredonia, Fredonia, NY 14063; telephone: 716-673-2541. Application deadline is 20 June 1992. SUNY College at Fredonia is an Equal Opportunity/Affirmative Action Employer. Women and minorities are strongly encouraged to apply.

MOLECULAR/CELLULAR BIOLOGIST ASSISTANT PROFESSOR

Applications are invited from individuals with experience in molecular or cellular biology, whose research is relevant for understanding the molecular basis of host-parasite interactions. A specific background in parasitology is not required. Applicants should have a Ph.D. or equivalent and postdoctoral experience. Applicants will be expected to have demonstrated ability to run a strong independent research program and to supervise postgraduate student researchers. The position is available immediately. McGill University is committed to Equity in Employment: qualified women and men are encouraged to apply. In accordance with Canadian Immigration requirements, this advertisement is directed to Canadian citizens and permanent residents of Canada in the first instance. Applicants should send an outline of research interests, curriculum vitae, and the names of three people who have agreed to provide letters of recommendation to: Dr. Greg Mathlouthi, Institute of Parasitology at McGill University, 800 Sherbrooke Street West, Montreal, Quebec, H3A 2R5, before 20 January 1992.

POSITIONS OPEN

VISITING ASSISTANT PROFESSOR OF PHYSIOLOGY. A primary teaching position is available in the Physiology Section of the Medical Sciences Program on the Bloomington campus of Indiana University. The successful candidate will participate in the teaching of the basic undergraduate and/or medical physiology courses, as well as in the elucidation of new concepts which are required in the basic curriculum. The initial appointment is for 1 year, with a possibility for renewal. Emphasis is placed on quality instruction. Candidates are encouraged to apply for research support. Send your curriculum vitae along with the names, addresses and telephone numbers of three references to: Dr. L. C. Myer, Assistant Professor of Physiology, Room 246, Indiana University, Bloomington, IN 47405, telephone: 812-855-8118. Applications will be reviewed starting 15 June 1992 and the search will continue until the position is filled. An Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSORSHIP (tenure track) for physician-investigator with the Division of Endocrinology and Metabolism and the Program in Human Molecular Biology and Genetics at the University of Utah School of Medicine. Targeted areas of research: molecular biology or genetics of Ca2+ metabolism, endocrine tumor biology, or diabetes mellitus. Applicants should have a Ph.D. or equivalent advanced degree and experience to permit independence. Clinical commitment sharply limited. Rank and salary dependent on qualifications; position open until 31 August 1992 or until filled. The university is an Affirmative Action/Equal Employment Opportunity Employer. Send curriculum vitae and three references to: Dr. John L. Reber, Department of Medicine, University of Utah, 505 N. Medical Drive, Salt Lake City, UT 84132; or to Dr. H. M. Lynch, Department of Medicine, Division of Endocrinology and Metabolism, University of Utah Medical Center, 421 South Medical Drive, Salt Lake City, UT 84112.

ASSISTANT/ASSOCIATE PROFESSOR OF MICROBIOLOGY AND IMMUNOLOGY

Twelve-month tenure-track position. Special consideration will be given to individuals working with retroviruses, tumor viruses, lymphokines or psychoneuroimmunology. The individual is expected to participate in teaching medical and graduate students. Applications should have postdoctoral experience and potential to develop a productive/fundable research program. Screening of candidates begins 29 June 1992. Starting date is 1 January 1993. Send curriculum vitae, description of research interests, and three references to: Dr. V. J. Ziegler, Department of Microbiology and Immunology, University of California, San Francisco, CA 94143. Applications will be reviewed until position is filled. An Equal Opportunity/Affirmative Action Employer.

PROFESSOR AND CHAIR, DEPARTMENT OF BIOLOGICAL CHEMISTRY. The University of California, San Diego, is seeking an outstanding scientist in molecular biology or biochemistry, including, but not limited to, disciplines such as developmental biology, neurobiology, and human genetics. The candidate must be of great distinction and lead an active research program. Send nominations or applications to: Professor Francisco J. Ayala, Chair of the Search Committee, Room 246, Irvine Hall, College of Medicine, University of California, Irvine, CA 92717. Nominations and applications will be accepted through October 1, 1992. UCSD is an Affirmative Action/Equal Opportunity Employer. Nominations and applications from women and minorities are encouraged.
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BS/MS Scientists

If you have a BS or MS in Biochemistry, Immunology, or related discipline, relevant laboratory experience and strong theoretical knowledge, take advantage of this opportunity to join a multi-disciplinary team in one of the following areas:

Protein Chemistry—You will join our Protein Chemistry group developing biotechnology applications for drug discovery and medicinal research programs. Must be highly motivated and skilled in the preparation of monoclonal antibodies. Also, be willing to develop complementary expertise in one or more of the following areas: Protein Isolation/Characterization, Structural Analysis and/or Receptor Binding Assays.

Molecular Pharmacology—You will use innovative strategies to clone novel genes important in inflammatory diseases. The position requires broad experience in contemporary molecular biology techniques, and it would be a further advantage to have experience in steroid receptor biology, gene transcription or immunology.

Diabetes/Obesity—As a laboratory scientist, you will conduct research in our Diabetes and Obesity Group. Previous research laboratory experience demonstrating proficiency in molecular biology and biochemical techniques required.

Viral Immunology—Evaluate mechanics of novel immunostimulants using in vivo models. Experience using immune function assays, cell culture, in vivo modeling and biochemical techniques highly desired.

Inflammation—Two positions are available in our laboratories which are targeting receptors on leukocytes as a novel approach for developing new anti-inflammatory therapy. Some knowledge of cell isolation techniques, receptor-ligand interactions, immunoprecipitation, electrophoresis, ELISA and signal transduction mediated through specific receptors or leukocytes would be helpful.

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FACULTY POSITIONS
DEPARTMENT OF MICROBIOLOGY
NEW YORK UNIVERSITY
SCHOOL OF MEDICINE

The Department of Microbiology of NYU School of Medicine is seeking to fill two tenured track positions at the Assistant/Associate Professor level. We are particularly interested in attracting outstanding researchers with a Ph.D. or M.D., and we are open to those working in the fields of molecular virology, oncogenes, growth factors and their receptors, and microbial pathogenesis, but will also welcome applications from individuals interested in the molecular analysis of gene expression and function in general. Participation in the Department's graduate and medical students teaching is expected. Salary is open and dependent upon experience and qualifications, and start-up funds are available.

The Department of Microbiology occupies newly renovated laboratory space in the Medical Science Building at NYU Medical Center, and comprises at present a group of faculty with diverse research interests including onco- genic viruses, the mechanism of action of cytokines and growth factors, mechanisms of microbial pathogenicity and antimicrobial host defenses, regulation of gene expression in bacteria and animal cells, molecular genetics, etc. The Department has an active graduate training program and also participates in the Kaplan Cancer Center and the Center for AIDS Research. Both of these Centers are interdisciplinary NIH-funded programs.

Applicants should send their curriculum vitae, names of three references, and a brief statement of Research interests to: Dr. Claudio Basilio, Professor and Chairman, Department of Microbiology, NYU Medical Center, 550 First Avenue, New York, NY 10016.

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FACULTY POSITION
WAKE FOREST UNIVERSITY
The Bowman Gray School of Medicine
NEUROSCIENCE
ASSISTANT OR ASSOCIATE PROFESSOR

Tenure-track faculty position for individual with expertise in molecular or cellular neuroscience. Candidates must have a Ph.D. or M.D., post-doctoral experience and a record of extramural funding for an independent research program. Area of expertise may include, but is not limited to, developmental neurobiology and sensory neurobiology, including retinal cell biology. Teaching responsibilities include participation in graduate neuroanatomy and neuroscience courses. The successful candidate will join a large Neuroscience Program composed of over 50 individuals in both basic and clinical science departments which offer an interdisciplinary Ph.D. degree in Neuroscience. Applicants should submit the following material to the address below by June 1: curriculum vitae, reprints of two-three of their most significant papers, a concise description of research interests and goals, and arrange for three letters of reference to be sent to: Chair, Dr. Ronald W. Oppenheim, Neuroscience Search Committee, Department of Neurobiology and Anatomy, Wake Forest University, Bowman Gray School of Medicine, Winston-Salem, NC 27157-1010. EOE (Equal Opportunity Employer).

Bioprocess Development Professionals

Start-up Opportunities with New Protein Development Center

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

To shorten key product development and clinical program schedules and better control quality and costs, we have just completed construction of a 78,750 sq. ft. Protein Development Center to house pilot production facilities with an attached wing for development labs and related environmental rooms.

We can offer truly ground-floor opportunities for Bioprocess Development Professionals to join us at the start-up and pre-qualification phase at our campus-like facilities in central New Jersey, midway between New York City and Philadelphia.

Research Scientist/Sr. Research Scientist
Requires Ph.D. and 0-3 years' experience demonstrating basic familiarity with biochemical/chromatographic separation technologies. Knowledge of biochemical and cell biology methods desired. The successful candidate will develop purification processes for isolating protein products for therapeutic use; characterize protein intermediates and product molecules; validate processes and methods. (Dept. 9A)

Research Assistant/Research Associate
Requires BS in Biochemistry, Chemistry, or Biological Sciences and knowledge of the analysis of proteins by IEF, Western, SDS PAGE and other bioanalytical methodologies. Experience interfacing effectively on multidisciplinary drug development teams required; GLP experience desired.

The successful candidate will provide analytical services for process development; characterize protein products for activity and identity; operate/maintain analytical equipment, particularly HPLC. (Dept. 9C)

Purification Specialist/Sr. Purification Specialist
Requires BS/MS in Biochemical/Chemical Engineering or a Biological Science with 0-3 years of experience in scale-up of protein purification, including GMP operation of chromatography columns and related support operations: buffer make-up, column assembly and packing, process monitoring and control. Knowledge of ultrafiltration desired.

The successful candidate will develop and implement protein purification processes in the manufacture of clinical grade parenteral products. Evaluate processes and equipment materials; develop operating procedures; maintain batch records and process validation protocols. (Dept. 9D)

Associate Scientist/Sr. Associate Scientist
Requires BS/MS or equivalent in Microbiology, Cell Biology or Biochemical Engineering and 1-2 years of experience in fermentation/cell culture process development. Background must include work with recombinant protein and monoclonal antibodies.

The successful candidate will be responsible for developing fermentation processes, medium optimization, characterization of other physiochemical parameters and transfer of processes to production environment. (Dept. 9B)

Fermentation Specialist
Requires BS/MS or equivalent in Microbiology, Biochemical Engineering or Cell Biology and 1-2 years of "hands-on" experience in fermentation process development and/or manufacturing. Background must include work with recombinant procaryotic or eucaryotic microbes, secreted proteins, large-scale mammalian cell culture, cGMP as applied to the manufacture of clinical biology.

The successful candidate will be responsible for large-scale preparations of cell culture media, prepare/operate lab and pilot scale fermentors used for the manufacture of recombinants/secreted protein products, preparation of inocula, harvesting and primary concentration of fermentation products, writing SOPs and batch records. (Dept. 9E)

Validation Specialist/Sr. Validation Specialist
Requires BS/MS or equivalent in Chemical Engineering with 5 years' experience in validation of equipment and processes. Working knowledge of drug and biologics GMPs required.

The successful candidate will be responsible for validating biological facilities, equipment and processes, execute protocols, analyze results and prepare reports; interface with Operations and Quality concerning validation studies. (Dept. 9F)

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No phone calls please. Send resumes, including salary history: Mr. Thomas Hutton, indicate the Dept. # for the position of your choice, R.W. Johnson Pharmaceutical Research Institute, P.O. Box 300, Raritan, NJ 08869-0602.

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Senior Environmental Scientist/Research Program Manager

The ideal candidate is a nationally recognized expert in wetlands biogeochemical processes who has managed interdisciplinary teams performing studies of wetlands ecology and nutrient dynamics. Desired qualifications include a strong background in wetlands ecology, aquatic chemistry, and statistics; excellent communications and interdisciplinary skills; contract management experience; and a demonstrated record in solving environmental problems. A Ph.D. in wetlands ecology, environmental chemistry, environmental engineering, or a related field is required. Knowledge of Everglades wetlands ecology or biogeochemistry, expert witness experience, and expertise with modeling, spreadsheet, statistical (SAS), and graphics PC software packages a plus. This position offers the opportunity to influence the restoration of one of the world’s unique bioregions. Contact Dr. Thomas D. Fontaine, Director, Everglades Systems Research Division at (407) 687-6551 or send your resume to the address below.

Staff Environmental Scientist

We are seeking a quantitative environmental scientist to work on applied management problems in the aquatic resources of South Florida. The ideal candidate will have a strong background in quantitative aspects of environmental science including database management and advanced statistics; modeling experience would be a plus. Demonstrated ability to work in collaboration with multidisciplinary teams and a record of research accomplishments are desired qualities. A Master’s degree in environmental science or related field with statistical/quantitative emphasis is desired. At least two years’ experience with wetlands ecology, water quality analysis, hydrological/modeling or environmental management is sought. The position offers an opportunity to be involved with important research in applied science and to influence the future of South Florida’s environment.

For a career that will leave its mark on society for generations, please send us your resume, indicating position of interest: Human Resources Division, RE: SM/52992/SES, South Florida Water Management District, 3301 Gun Club Road, West Palm Beach, FL 33416-1680. To be considered, please include your social security number on your resume. We are an equal opportunity employer m/f/d/v.

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DIRECTOR

National Center for Human Genome Research

The National Institutes of Health (NIH) invites nominations and applications for the position of Director of the National Center for Human Genome Research (NCHGR). This is a Civil Service position in the Senior Executive Service (SES), with a salary range of $90,000 to $112,100 per annum. The person selected may also be eligible for Physicist’s Comparability Allowance of up to $20,000 per year. A relocation bonus of up to 25 percent of base pay may be available to non-federal candidates selected for this position, subject to individual approval. A relocation bonus of up to 25 percent may be available to a permanent federal employee who must relocate to accept this position, subject to individual approval. A one year probationary period must be served if the individual selected is not currently in the Senior Executive Service. Members of the Commissioned Corps of the U.S. Public Health Service will be considered.

The Director administers, manages and oversees the human genome program for the NIH. S/he is the principal advisor to the Director, NIH, on the substance, quality and effectiveness of NIH human genome programs and research policies. The Director is responsible for strategic planning and identifying major areas of human genome research. Incumbent serves as a liaison on human genome research programs with the media, special interest groups, high-ranking scientific and executive officials in other Public Health Service agencies, the DHHS, other Federal agencies, the academic and private sector, and with members of or staff to the Congress.

For more information, contact Mary Glynn at (301) 402-1094. The following forms are required: Application for Federal Employment (SF-171) accompanied by a current curriculum vitae and bibliography. These must be submitted to:

Mary Glynn
National Institutes of Health
National Center for Human Genome Research
Building 38A, Room 616
9000 Rockville Pike
Bethesda, Maryland 20892

Applications must be received by: June 26, 1992

All qualified candidates will receive consideration without regard to race, religion, color, sex, age, national origin, lawful political affiliation, marital status, or physical or mental disability.
**POSITIONS OPEN**

**EPIDEMIOLOGIST/POLYPATHOGENETIC BIOLOGIST ASSISTANT PROFESSOR (INTERFACIAL TRACK)**

Applications are invited from individuals with experience in population biology, population genetics or epidemiology of infectious diseases and whose research is relevant for understanding the host-parasite interactions in human and animal populations. Applicants should have a Ph.D. or equivalent, and at least 2 years of postdoctoral experience. Applicants will be expected to have a strong interest in a strong program in experimental research and to supervise postgraduate student research. The position is available immediately. **McGill University** offers an environment in which women and men are encouraged to apply. In accordance with Canadian Immigration requirements, this advertisement is directed to Canadian citizens and permanent residents of Canada in the first instance. Applicants should send an outline of research interests, curriculum vitae and the names of three individuals who have agreed to provide letters of recommendation to: **Dr. Marilyn Scott**, Director, Institute of Parasitology of **McGill University**, Macdonald Campus 21,111 Lakeshore Road, Ste.-Anne-de-Beaupre, Quebec, Canada, H9X 1C0, before 30 September 1992.

The University of North Dakota School of Medicine seeks applicants for a position of ASSISTANT OR ASSOCIATE PROFESSOR to join the Department of **PHYSIOLOGY** under the direction of its new chairman. The successful candidate will be expected to contribute to the teaching of medical and allied health sciences physiology and to establish an independently funded research program. Demonstration of experience in these endeavors is critical. Applications should include curriculum vitae with statements of teaching experience and research interests, reprints of three selected publications, and the names of three individuals willing to serve as references. Women, minorities and veterans are encouraged to apply. Applications should be sent to: **Dr. Willis K. Samson**, Chairman of Physiology, University of North Dakota School of Medicine, Grand Forks, ND 58202. We are an Equal Opportunity/Affirmative Action Employer.

**DIRECTOR OF RESEARCH & DEVELOPMENT**

Established small manufacturer serving commerical horticulture and turf industries seeks candidate with master's degree in plant/soil sciences. Ph.D. desired, with strong organic chemistry background. Ten years of experience in turfgrass, ornamental horticulture and/or agricultural research, business and product development. Experience in both supervisory and managerial level. Must have demonstrated leadership qualities in project management and highly developed communication and interpersonal skills. Position reports to the President. Submit complete curriculum vitae and salary history to: Aquatrols Corporation, 5 North Olney Avenue, Cherry Hill, NJ 08003.

**DIRECTOR OF RESEARCH**

The P.S.L. Healthcare System and Center for Health Sciences Education seek an M.D., Ph.D., Pharm.D., D.V.M., D.O., or D.P.M. researcher with experience in conducting clinical research to establish an Office of Research and Development. The system has two hospitals with 800 beds, an active medical staff numbering over 500, and centers of excellence in transplantation, oncology, limb preservation, geriatrics, cardiology, women's services, and behavioral health. Our graduate medical education programs are affiliated with Rush University in Chicago, the University of Colorado and the College of Osteopathic Medicine of the Pacific.

The director will be responsible for planning, developing, implementing, and evaluating the P.S.L. research programs. Experience needed to permit up to 20% time to their own research activities. At least 10 years of experience in clinical research, knowledge of biostatistical skills, and exceptional written and verbal communication skills are required.

Send cover letter, curriculum vitae and references to: **Robert M. Riffkin, M.D.** Chairman, Search Committee for Research & Development c/o Bose Marrow Transplant Program Presbyterian/Methodist Medical Center 1719 East 19th Avenue Denver, CO 80218

**POSITIONS OPEN**

**INTERSTITIAL CELL BIOLOGIST**

The Nemours Research Program of the Alfred I. duPont Institute intends to establish a Gastroenterology Research Laboratory. The position is available immediately. **DIRECTOR OF LABORATORY**. We are seeking an individual whose interests lie in some aspect of intestinal cell biology/pathophysiology research, preferably with experience using cultured intestinal cell lines. In this position the appointee will pursue his/hers own independent research and also promote collaborative research with existing programs in regenerative and cellular energy metabolism, transport, and gastrointestinal motility and inflammation. The Nemours Research Programs currently include a variety of research programs in several areas of cell and developmental biology.

The Alfred I. duPont Institute is a rapidly growing, multidisciplinary children's hospital and the major pediatric teaching affiliate of Jefferson Medical College. Growth of the Gastroenterology Research Program has been occurring in parallel with the development of an academically oriented clinical program in pediatric gastroenterology and nutrition. The Gastroenterology Division will be staffed by three full-time investigators, along with research technical support, by July 1992.

Interested parties should mail a letter of interest, curriculum vitae, and salary history (required) to: **Alfred I. duPont Institute, Research Department, P.O. Box 269, Wilmington, DE 19899**, Attention: Research Administration. Applications will be accepted until the position is filled.

**EDITOR/PRODUCER, VIDEO COURSES.** The American Chemical Society is seeking an experienced programmer to manage production of video courses for chemistry students, technicians, and researchers. Duties include arranging tapings; editing original manuscripts; hiring and working with technical advisors, video directors, writers, and producers; preparing budgets; and supervising video production staff. Applicants MUST have degree in chemistry and experience in editorial and video production work. Supervisory experience highly desirable. Excellent oral and interpersonal skills and computer skills required. Some travel. Salary: $30,000-$40,000. **RESUMES ONLY.** American Chemical Society, 1155 16th Street, N.W., Suite 100, Washington, DC 20036. Equal Opportunity Employer.

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**DIRECTOR**

Center for Interfacial Microprocess Engineering, Montana State University (MSU), Bozeman, Montana, is seeking a Director. Responsibilities: Represents the center; defines policies; oversees execution of programs' research, education, technology exchange, administration, and budget resources; and serves as the principal advisor of programs, research, education, technology exchange, and administration.

The center was established through the NSF Engineer- ing Research Center program in April 1990. The center receives research support from Industrial Associates (20 members worldwide) and provides technology exchange into industry. Conducts environmental biotechnology re- search using a process engineering approach on engineer- ing processes related to sewage organisms and biofilms, including processes important in biodegrading, biocorrosion, and bioremediation. Researchers study fundamen- tals of transport, microbiology, and chemical- aty at the molecular and micro-scale levels of observation and conduct experiments both on test bed facilities in the center and at industrial field sites.

Salary is negotiable. Starting date is 15 August 1992 or 1 July 1993; at least 3 years of relevant experience are required. Send application materials including required and preferred qualifications, contact by telephone or FAX: the Engineering Research Center, Attn: Search, 1155 South Park, Msu Lakeshore Hall 409, MSU, Bozeman, MT 59717; FAX: 406-994- 6098; telephone: 406-994-4770. Initial screening begins 1 July 1992; applications will be accepted until a suitable candidate is hired. MSU is an Affirmative Action/ Equal Opportunity Employer.

**GROUP LEADER.** Berkeley Antibody Company (BabCo) has an immediate opening for a B.S. or M.S. with 5 plus years or a Ph.D. with 2 plus years of industrial experience in immunohistochemistry. Knowledge of protein purification and assay development is essential. So are supervisory experience, computer skills and communication skills. BabCo, a premier immunology organization located in the San Francisco Bay Area, is com- mitted to providing quality immunological services. Send résumé to: 4131-B Lakeside Drive, Richmond, CA 94806, Attention: K.B.

**STAFF ASSOCIATE**

Nontenure-track staff position in the Department of Physiology and Cellular Biophysics. Candidates must have master's degree or equivalent, doctorate preferable. At least 3 years of postdoctoral experience is required. Is responsible for designing and constructing in membrane transport, cellular interaction with extracellu- lar matrix, measuring energy charge, analysis of cellular metabolism and protein expression. Application with full curriculum vitae and salary requirements to: Dr. John Loike, Department of Physiology and Cellular Biophysics, Columbia University, 630 West 168th Street, New York, NY 10032. Columbia University is an Affirmative Action/Equal Opportunity Employer.

The University of Iowa College of Medicine is seeking a distinguished SCIENTIST (clinical or basic) for a FACULTY POSITION to direct a new cancer research center. The center is comprehensive in scope and includes basic research, clinical research, education, epidemiology and outreach programs. This position carries with it substantial commitments in research support and space, new investigator and outpatient facilities at The University of Iowa Hospitals and Clinics dedicated to cancer pa- tients and opportunities for faculty recruitment. The salary will be commensurate with experience. Endow- ment funds are available. Basic qualifications: M.D. or Ph.D. degree or equiva- lent. Nationally and internationally recognized for re- search in molecular science related to the broad field of cancer. The candidate must have shown ability to attract extramural funding through the National Institutes of Health or equivalent in 30% of the candidate's total leadership in development and coordination of interdis- ciplinary research programs and ability to organize a large and complex cancer research center in concert with appropriate colleagues. Evidence of effective teaching/ training experience. Evidence of effective administrative abilities.

Please address letters of interest or nomination to: Cancer Center Director Search, Office of the Dean, 212 CAMB, The University of Iowa College of Med- icine, Iowa City, IA 52242-1199. The University of Iowa is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.
Announcing: A New Discovery Effort

Biogen, Inc., a leader in the biopharmaceutical industry, announces an exciting new discovery effort in Medicinal Chemistry and Drug Design. Become a member of the expanding team that intercalates Chemistry, Drug Design and Pharmacology into one of the finest biotechnology groups in the world. A variety of positions are available across the spectrum of drug discovery for creative individuals with backgrounds in Organic Chemistry, Peptide Chemistry, Drug Design and Pharmacology.

**Pharmacology**

Positions at the Ph.D. and BS/MS levels are available for individuals experienced with in-vitro and in-vivo pharmacological methods. Demonstrated expertise with cardiovascular, inflammatory and/or immune models is especially desirable. This key group will be intimately involved in the discovery process and participate in the evaluation of drug candidates as well as coordinate activities with collaborators and with development functions.

**Organic/Medicinal Chemistry**

Positions are available at the BS/MS and Ph.D. levels for individuals with experience in synthetic organic and medicinal chemistry. Successful candidates will have employed asymmetric syntheses in their work as well as a variety of physical methods including 2-D NMR, Mass Spectrometry, Computational Chemistry, etc.

**Drug Design**

A position exists for a Ph.D. Chemist committed to experimental applications with experience in the use of computational approaches to drug design. Success in this position will require a commitment to work closely with other Chemists and Bio-Chemists in the drug design process and to contribute fundamentally to the experimental aspects of the work.

**Peptide Chemistry**

A key position at the Ph.D. level exists for an individual with experience and demonstrated results in the application of Peptide Chemistry to Drug Design. Broadly based knowledge and practical experience with Peptide Synthesis, especially solid phase methods, are essential. Additionally, a commitment to peptide mimetic approaches is desirable.

Biogen offers what few companies in our industry can - Scientific Challenge, Stability, Profitability, and Growth. In addition, our compensation and benefits package is one of the best in the industry, and is designed to attract and retain the finest talent available. If you are one of the best, you have an opportunity to join us now. Please forward/FAX your resume to, or call Joe Tringali at (617) 252-9802, Biogen, Inc., Ref. SC0529, 14 Cambridge Center, Cambridge, MA 02142. [FAX# (617) 252-9617] Biogen is an Equal Opportunity Employer.
**Director**

**Earth Sciences Division**

Lawrence Berkeley Laboratory, a multi-disciplinary research and development center, funded by the U.S. Department of Energy is currently inviting applications for the position of Director, Earth Sciences Division.

The Director will coordinate a broad program of integrated research in geology, geophysics, geochemistry and hydrogeology, and will be responsible for developing inter-disciplinary projects in such areas as the earth science aspects of environmental studies, petroleum reservoir engineering, nuclear waste disposal, and geothermal energy. The Earth Sciences Division has a staff of approximately 200, including 40 principal investigators and faculty scientists with an annual budget of over $12M. The Division Director also participates in formulating the research policy and long-term direction of the Laboratory as a whole. The Director is expected to maintain a strong personal involvement in research.

This position requires a Ph.D. or equivalent in Earth Sciences or a related field, combined with a distinguished record of scientific achievement and program management. The candidate must have demonstrated capabilities in scientific leadership and must have strong management and administrative skills, creativity in decision making and problem solving and experience in human resource management.

The closing date for the submission of applications is July 30, 1992. Applicants must submit two copies of resume, salary history, and the names, addresses and three references to: ESD Search Committee, Job H/7347, c/o Employment Office, Bldg. 90/1042, Lawrence Berkeley Laboratory, One Cyclotron Road, Berkeley, CA 94720. An equal opportunity employer.

**FACULTY POSITIONS**

The Department of Pharmacology invites applications for two tenure-track positions at the assistant, associate or full professor levels commencing October, 1992. Successful candidates will be expected to develop a strong research program preferably in cancer biology, cancer pharmacology or in the general area of growth and cell cycle regulation, and to teach medical and graduate students. The positions offer competitive salaries and laboratory start-up packages.

Application deadline is June 30, 1992. Send CV and 3 letters of reference to Dr. Leroy F. Liu, c/o Dr. Charles Brostrom, Professor and Acting Chair, Department of Pharmacology, UMDNJ-Robert Wood Johnson Medical School, 675 Hoes Lane, Piscataway, NJ 08854-5635. UMDNJ, New Jersey university of the health sciences, is an Affirmative Action/ Equal Employment Opportunity Employer, m/f/h/v, and a member of the University Health System of New Jersey.

**POSITIONS OPEN**

The Division of Liver Transplantation, Department of Surgery, University of California, San Francisco, is seeking a candidate, in the capacity of Professor of Surgery, to establish and direct a Microsurgery Facility for the purpose of contributing to a research program in reduced-size liver transplantation in rats, which will explore the in vitro basis of hepatic mass regulation. This facility will serve as resource for the department in training residents in microsurgical techniques. Primary function of candidate will be to perform successful full-size and reduced-size liver transplants in rats as a model to be used in studies of hepatic regeneration and rejection mechanisms. Candidate will participate in development of research projects and completion of program in progress. Qualified candidates must have M.D. degree, demonstrated proficiency in rat liver transplantation and be able and willing to perform heart transplants in rats and mice. Send curriculum vitae to: Nancy Ascher, M.D., Ph.D., Department of Surgery, University of California, San Francisco, CA 94143-0780. The University of California, San Francisco, is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

**THE HEBREW UNIVERSITY- HADASSAH MEDICAL SCHOOL JERUSALEM**

**FACULTY POSITION**

The Faculty of Medicine invites applications for ten-ure-track faculty positions available for Allon Fellowship candidates leading to tenure-track positions in basic medical sciences. Preference will be given to candidates that utilize modern molecular approaches in the following areas: microbiology, human genetics, biochemistry, cell biology, developmental biology, physiology and pharmacological sciences. Ph.D. and/or M.D. degree and postdoctoral training are required. Excellence in research and teaching will be of prime importance in the decisions of the Search Committee. Candidates are expected to develop independent research. Curriculum vitae, list of publications, three to five selected reprints, research plans and three letters of recommendation addressed to: The Dean, Professor S. Razin, should reach the Office of the Dean, P.O. Box 1172, 91010, Jerusalem, Israel, not later than 30 September 1992.

**FACULTY POSITION IN STRUCTURAL IMMUNOLOGY**

Applications are being accepted for a tenure-track faculty position in structural immunology at the Center for Advanced Research in Biotechnology (CARB). The successful candidate will be expected to establish a vigorous research program in the structural and physical characterization of immunoglobulins and antigen/antibody complexes. Existing research areas at CARB include molecular biology, physical biochemistry, x-ray crystallography, NMR spectroscopy, protein modeling and computational chemistry. The position requires a Ph.D. in biochemistry, molecular biology or a related field, with demonstrated experience in: hybridoma technology, production and purification of monoclonal antibodies, determination of affinity constants, crystallization of biological macromolecules, x-ray diffraction techniques including preparation of heavy atom derivatives and modeling of three-dimensional structures, cloning and expression of eukaryotic proteins with different vectors in eukaryotic and prokaryotic hosts, and site-directed mutagenesis. Prospective candidates should submit a curriculum vitae and research plan and arrange for three letters of recommendation to be sent to: Chairman of the Search Committee, Center for Advanced Research in Biotechnology, Maryland Biotechnology Institute of the University of Maryland, 9600 Gudelesky Drive, Rockville, MD 20850. Applications must be received before 26 June 1992.

An Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITION**

At Brigham and Women's Hospital, Harvard Medical School. Position available immediately to study gene expression and biosynthesis of endothelial cell extracellular matrix synthase. Applicant must have strong background in eukaryotic molecular biology, mammalian cell culture, and basic biochemistry. Submit curriculum vitae, statement of research interests, and the names of three references to: Thomas Michel, M.D., Ph.D., Brigham and Women's Hospital, Cardiology Division, 78 Francis Street, Boston, MA 02115. FAX: 617-732-5132.
POSITIONS OPEN

RESEARCH FACULTY POSITION
HUMAN MOLECULAR GENETICS

The Corell Institute for Medical Research (CIMR) invites applications for a faculty appointment at either the junior or senior level. Candidates must have training and expertise in the highest quality basic research program addressing fundamental questions in the area of human genetics. The CIMR is an independent, not-for-profit research organization founded in 1953. Current programs center on growth factors, environmental toxicology, cardiovascular diseases, and cell culture. It offers an excellent research environment and facilities, start-up funds, and benefits package. Salary is negotiable. Candidates should submit curriculum vitae, statement of research interests and accomplishments, and list of three references. Review of applications will begin 1 July 1992; applications should be sent to: Dr. David P. Beck, President, CIMR, 401 Haddon Avenue, Camden, NJ 08103. Equal Opportunity Employer/Affirmative Action.

HUMAN GENETICS
AT THE UNIVERSITY OF UTAH

The University of Utah, Department of Human Genetics, would like to fill a faculty position in the RESEARCH INSTRUCTOR level. The department would like to recruit a candidate that has a Ph.D. with four or more postdoctoral years of research in molecular genetics of the human. Research experience with a variety of techniques, development of STR-based DNA markers, construction and manipulation of YACs and generation of physical and genetic maps of the human genome. The candidate should have further extensive experience in mapping and cloning of genes causing hereditary disease. Application deadline will be 1 July 1992. Applications submitted after the deadline may be considered if no qualified candidates have applied by the deadline. Send curriculum vitae and references to: Dr. Raymond Gesteland, Human Genetics Recruitment Committee, University of Utah, Building 533, Room 533, Salt Lake City, UT 84112.

The University of Utah is an Equal Opportunity Employer.

POSTDOCTORAL POSITIONS
CELL CYCLE REGULATION II

Persons interested in eukaryotic cell cycle research are invited to apply for postdoctoral positions in the laboratory of Steve Osmani (see EMBO J. 10, 2609 (1991); Cell 67, 283 (1991); EMBO J. 11, no. 6 (in press) for recent publications and Nature 353, 701 (1991) for review). The Weis Center is a well-equipped modern research facility located in an attractive region of central Pennsylvania. Competitive salary and fringe benefits are available. For consideration, please send curriculum vitae and names of three references to: Human Research Recruitment, Department (SO), Geisinger Clinic, 100 North Academy Avenue, Danville, PA 17822-3024.

POSTDOCTORAL POSITION to investigate the role of protein-lipid interactions in the functioning of the extrinsic membrane proteins protein kinase C and phospholipase A2 using a range of techniques, in particular florescence spectroscopy. Both model lipid bilayer and cell membrane systems will be investigated. Some experience required in protein-lipid interactions and an active interest in acquiring more skill in florescence spectroscopy is essential.

Send curriculum vitae and names of three references, including one from a reference taken at a previous position, to: Dr. C. D. Snabes, #271, JAH, Thomas Jefferson University, Philadelphia, PA 19127. Thomas Jefferson University is an Equal Opportunity Employer committed to a smoke-free environment.

POSTDOCTORAL SCIENTIST

Biopharmaceutical R&D

SmithKline Beecham Pharmaceuticals, a world leader in pharmaceutical research, has an exciting opportunity for a postdoctoral scientist to do research in recombinant influenza vaccines. The work will involve mapping T-cell epitopes cellular assays, and characterizing human T-cell responses to recombinant influenza proteins. The position is located in the Protein Biochemistry Department and the scientist will collaborate and train with members of other departments in immunology/virology and gene expression.

The ideal candidate will have a Ph.D. in Biochemistry/Molecular Biology with familiarity and interest in cellular immunology/virology; or a Ph.D. Immunologist/virologist with interest in developing hands-on skills in protein/peptide epitope structures. Strong organizational and communication skills are required. Publication of results will be encouraged.

Our state-of-the-art research facility is located in suburban Philadelphia near Valley Forge, PA. We offer a competitive compensation/benefits/relocation package, as well as a stimulating work environment in which to grow and excel. For confidential consideration, please submit your CV along with the names of three references to: Marilyn Leggieri, Associate Employment Administrator, #L0130, SmithKline Beecham, P.O. Box 1539, King of Prussia, PA 19406. We are an Equal Opportunity Employer, M/F/H/V.

DEAN COLLEGE OF NATURAL RESOURCES
UNIVERSITY OF MINNESOTA

The University of Minnesota invites nominations and applications for the position of dean of the College of Natural Resources and associate director of the Minnesota Agricultural Experiment Station. The dean is the chief executive officer of the College of Natural Resources and associate director of the Minnesota Agricultural Experiment Station with general administrative responsibility for college faculty and staff, the recurring college and station budgets, and overall management of space and facilities, including the 3,700 acre Crooket Forestry Center. The dean and associate director reports directly to the vice president for agriculture, forestry and home economics, who is also the director of the Minnesota Agricultural Experiment Station. The person in this position shall be appointed initially to a three-year academic administrative appointment. Reappointment to annual terms rests upon successful completion of periodic reviews. Academic rank and tenure is dependent upon qualifications and vote of peer faculty in the appropriate department. Compensation, including benefits, will be at a competitive level based on qualifications and experience.

The College of Natural Resources is part of the Twin Cities campus of the University of Minnesota and is a key part of a large land-grant university that is located in a metropolitan area of about 2.2 million people. The college has a comprehensive budget of about $10 million and outstanding undergraduate and graduate programs. The faculty are nationally and internationally known for their disciplinary and interdisciplinary programs that have contributed significantly to the land-grant and Sea Grant missions of the University.

Qualifications for the position include an earned doctoral degree; experience in forestry, forest products, fisheries and wildlife or other related natural resource programs; demonstrated record of administrative or leadership experience; demonstrated ability to work effectively with and/or lead people; and demonstrated knowledge of teaching, extension and research programs.

Send nomination(s) or an indication of interest to:

Dr. Mark L. Brenner
Associate Dean of Graduate School
University of Minnesota
417 Johnston Hall
101 Pleasant Street SE
Minneapolis, MN 55455

Telephone: (612) 626-0309
FAX: (612) 626-7431

Further information on the position and application materials will then be forwarded. Completed applications must be received by July 31, 1992.

The University of Minnesota is an equal opportunity educator and employer.

Science
POSITIONS OPEN

POSTDOCTORAL POSITION is available to investigate intracellular signal transduction in platelets. Experiments will examine a cytoskeletal protein that is both a CAM-dependent protein kinase substrate and a member of the Ras superfamily of GTP-binding proteins. Recombinant DNA as well as traditional biochemical methods will be used. Send curriculum vitae and two letters of reference to: Dr. Ernest Gneco, Department of Medicine, Washington University School of Medicine, 660 South Euclid Avenue, St. Louis, MO 63110.

POSITIONS OPEN

POSTDOCTORAL POSITION is for investigations on the molecular and biochemical properties of calmodulin-dependent nitric oxide synthases. Opportunities exist for collaborative research in a multidisciplinary training program involving structural analyses of regulatory domains to cellular modes of protein expression and regulation. Previous experience with recombinant DNA methodology and researcher training is desirable. Send curriculum vitae and three letters of reference to: Dr. M. T. Prideaux, Department of Biochemistry and Molecular Biology, Emory University School of Medicine, 1516 Clifton Road, Suite 303, Atlanta, Georgia 30322. Review of applications will begin on July 1, 1992 and continue until the position is filled.

POSITIONS OPEN

POSTDOCTORAL POSITION: ULTRASTRUCTURAL ANALYSIS OF NEURONS AND MUSCLE FIBERS. The successful applicant is expected to complete a Ph.D. in molecular biology, immunology, or animal cell biology. A Ph.D. degree will be required. Salary: $24,000 per year. Interested individuals should send a curriculum vitae and a letter of interest to: Dr. Joan L. Small, Department of Pathology, University of Pennsylvania School of Medicine, 3400 Spruce Street, Philadelphia, PA 19104. Applications will be accepted until July 1, 1992.

POSITIONS OPEN

POSTDOCTORAL POSITIONS are available in the laboratory of Dr. J. Carlisle done, Department of Biochemistry, University of North Carolina at Chapel Hill, Chapel Hill, NC 27599. Applications are encouraged from U.S. citizens or permanent residents. The successful applicant is expected to complete a Ph.D. degree within two years. Interested individuals should send a curriculum vitae and a letter of interest to: Dr. Nancy E. Smith, Department of Biochemistry, University of North Carolina at Chapel Hill, Chapel Hill, NC 27599. Applications will be accepted until July 1, 1992.

POSITIONS OPEN

POSTDOCTORAL POSITION: CELLULAR AND MOLECULAR NEUROENDOCRINOLOGY. The successful applicant is expected to complete a Ph.D. degree within two years. Interested individuals should send a curriculum vitae and a letter of interest to: Dr. Nancy E. Smith, Department of Biochemistry, University of North Carolina at Chapel Hill, Chapel Hill, NC 27599. Applications will be accepted until July 1, 1992.
Postdoctoral Opportunities.

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

Biochemistry/Molecular Biology of Ascorbic Acid
Mark Levine, MD

The translocation of ascorbic acid (vitamin C) across cell membranes and its action on gene transcription are being studied. Ascorbic acid’s regulation of oxidant quenching in human neutrophils and collagen biosynthesis in human fibroblasts and its pharmacokinetics in humans are also being examined. Background in protein chemistry, enzyme kinetics, or molecular genetics preferred. Level of appointment is dependent upon experience. Laboratory of Cell Biology and Genetics (OE-13), NIDDK, Building 8, Room 415.

Gene Expression/Cell Biology
Richard Maraia, MD

Developmental and tissue-specific expression of RNA polymerase III-dependent small cytoplasmic RNAs, their assembly into ribonucleoprotein particles, and their effects as trans-acting factors on cellular functions are studied. Background in eukaryotic transcription, RNA processing, RNA-protein interactions, and in vitro translation are preferred. Laboratory of Molecular Growth Regulation (OE-13), NICHD, Building 6, Room 416.

Gene Expression in the Hypothalamus
W. Scott Young, III, MD, PhD

Central nervous system function is being investigated utilizing techniques ranging from expression cloning and homologous recombination to in situ hybridization and immunohistochemistry. In particular, these techniques are used to study the regulation of gene expression in the hypothalamus, including the role of trans-acting factors. Candidates must have three or fewer years of postdoctoral experience. Laboratory of Cell Biology (OE-13), NIMH, Building 36, Room 2D10.

Gene Regulation and Expression
Ravi Dhar, PhD

The fission yeast Schizosaccharomyces pombe is being used to conduct research in gene regulation and expression. Genes encoding factors that regulate mammalian and viral promoters are being isolated by complementation analysis. The mechanism by which mRNA is transported is also being studied. Candidates must have three or fewer years of postdoctoral experience. Laboratory of Molecular Virology (OE-13), NCI, Building 41, Room B506.

Molecular Genetics
Susan R. Haynes, PhD

RNA binding proteins involved in packaging and splicing premessenger RNA in Drosophila melanogaster are being studied. Projects include structure/function analyses of RNA binding proteins in transgenic Drosophila strains, characterization of sequences involved in regulating the expression of the genes encoding these proteins, and identification of mutations in these genes and analysis of their effects on RNA processing. Laboratory of Molecular Genetics (OE-13), NICHD, Building 6B, Room 3B331.

Molecular Hematology
Helene F. Rosenberg, MD

The molecular events involved in the formation of the distinctive granules of human neutrophils and eosinophils are currently under study in order to determine the genetic factors regulating granule protein biosynthesis and localization. Background in molecular biology and biochemistry is desirable. Recent graduates are encouraged to apply. Laboratory of Host Defenses (OE-13), NIAID, Building 10, Room 11N114.

Additional Postdoctoral Fellowship Opportunities

For an on-line listing of additional postdoctoral openings you may access the NIH EDNET Bulletin Board's POSTDOC conference via modem (1,3014922221 or 1,8003582221). The settings for modem access are "7,Even,1". When connected to NIH, type in "vt100" at the connect message, "F5E" at initial, and "AJL1" at account.

Those interested in receiving a catalog featuring descriptions of NIH research laboratories and other postdoctoral opportunities, as well as information on clinical training opportunities, may contact the Office of Education, Building 10, Room 1C129. Phone: 301-496-2427.

To Apply

If you hold a PhD, MD, or equivalent degree 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
9000 Rockville Pike, Bethesda, MD 20892
Equal Opportunity Employer
US Environmental Protection Agency  
Health Effects Research Laboratory  
Developmental Toxicology Division  

INVITES PROPOSALS FOR A COOPERATIVE AGREEMENT TO DEVELOP:  
"IN VITRO MODELS OF EMBRYONIC DEVELOPMENTAL TOXICITY"  

The EPA is mandated to assess risks associated with exposure of the developing fetus to environmental agents. New information on molecular and cellular mechanisms of developmental toxicity in the human is essential to more accurately assess these risks. We are seeking projects to study cultured human embryonic tissues which develop differentially in vitro. Examples of such models include, but are not limited to, palatal organ culture, limb bud organ culture, micromass culture, and epithelial cell culture. Laboratories currently using mammalian embryonic in vitro techniques are therefore encouraged to submit pre-proposals. Preference will be given to proposals which address the relevance of the model and the selected endpoints through correlation with responses of cultured animal tissues/organisms and with data from in vivo animal studies. Some of these models may be achieved through interactions with ongoing research efforts at EPA. EPA will have significant involvement in this project and information generated by this collaboration will be incorporated into biologically based dose-response (BBDR) models currently under development at EPA. Pre-proposals should be brief (5-10 pages) and describe the proposed in vitro model, including prior application of model to animal or human tissue/organ, candidate chemicals to be used in the research, cellular and molecular approaches to be used, proposed strategy for validation of findings, cost estimates and staff qualifications. Following review of pre-proposals, selected applicants will be asked to submit final proposals, which must be cleared through appropriate institutional review boards. It is anticipated that funding will be $100,000 per year (including indirect costs) for up to 3 years. DEADLINE for receipt of pre-proposals is July 2, 1992. To submit proposals or for additional information: FAX (919) 541-4017; or MAIL: RIHRA Pre-proposal, Developmental Toxicology Division (MD-71), Health Effects Research Laboratory, US EPA, Research Triangle Park, NC 27711. This solicitation is subject to parts 30 and 40 of EPA Grant Regulations, therefore profit-making organizations are prohibited from applying. EPA reserves the right not to make any awards from this solicitation.

CAROLINA WORKSHOPS  
University of North Carolina at Chapel Hill  
cDNA CLONING & GENE EXPRESSION  
October 18-November 1, 1992  

A general DNA techniques workshop focusing on synthesis of cDNA and cloning into lambda vectors. Techniques will include mRNA isolation, Northern transfer and hybridization, cDNA synthesis, adapter facilitated cloning into lambda vectors, subcloning into plasmid vectors, and DNA sequencing. Libraries will be screened with cDNA and DNA probes. Additional techniques to be utilized as time permits will include computer analysis of DNA sequence data. Students may bring their own mRNA preparations for construction and cDNA libraries. Tuition is $2,150.

To apply, send a curriculum vitae and a brief letter describing your research interests and their relevance to the Workshop for which you apply. Applicants should contact the program office as soon as possible. Please indicate your complete mailing address and telephone/fax number. Full consideration will be given to applications received by August 17, 1992.

INSTRUCTORS:  
David Joseph, Ph.D., UNC-CH  
Richard Ogden, Agouron Institute  

FUTURE CAROLINA WORKSHOPS:  
Mutagenesis--Spring, 1993
In Vitro Transcription--Summer, 1993

For further information or to apply, contact:  
Dr. Wayne Litaker, Faculty Director  
University of North Carolina at Chapel Hill  
Program in Molecular Biology & Biotechnology  
402 Taylor Hall CB 7100 S  
Chapel Hill, North Carolina 27599-7100  
TELEPHONE (919) 966-1730, FAX (919) 966-5821

CANADIAN NETWORK OF TOXICOLOGY CENTRES  
Position Available  
Executive Director, Toxicology  

The Executive Director, Toxicology, will be responsible for the effective administration of the Canadian Network of Toxicology Centres. This Network has received five year funding from Canada’s Green Plan and consists of three Nodes:  
• The Toxicology Research Centre, University of Saskatchewan  
• The Centre interuniversitaire de recherche en toxicologie, Université de Montréal and Université de Québec à Montréal, and  
• The Centre for Toxicology, University of Guelph  

The Green Plan funding of the Network will be administered by the University of Guelph and the Executive Director will be appointed at that location. He/she will report to the Executive Director of the Network Board of Directors, and will be expected to achieve coordination of research activities and technology transfer in toxicology among the three Nodes and be responsible for external relationships with other universities, granting councils and agencies, governments, industry and counterpart institutions.

The candidate selected will be a recognized scientist with extensive knowledge and experience in one or more fields of toxicology and a broad understanding of research and information needs appropriate to Canada’s priorities in toxicology. He/she will have proven management and personnel skills and will engender a positive atmosphere of excellence, accomplishment and confidence. He/she must be able to set priorities, monitor accomplishments and communicate results. Working knowledge of the French language is a requirement of this position.

The successful candidate will be appointed before April 1st, 1993, for an initial four year period. Depending on the mutual interests of the candidate and the University, a tenure or tenure-track appointment in an appropriate university department may be available.

The salary level will be consistent with the experience and qualifications of the appointee.

The University of Guelph is committed to an Employment Equity Program that includes special measures to achieve diversity among its faculty and staff. We, therefore, particularly encourage applications from qualified aboriginal Canadians, persons with disabilities, members of visible minorities and women. In accordance with Canadian Immigration requirements, this advertisement is directed to Canadian citizens and permanent residents.

Interested applicants should provide a full curriculum vitae, a list of three references and apply to: Dr. J.P. Milham, Committee of the Network Board, University of Guelph, Guelph, Ontario N1G 2W1.

UNIVERSITY OF GUELPH

POST-DOCTORAL SCIENTIST

The Upjohn Company, a recognized leader in pharmaceutical research and development has an excellent opportunity for a Post-Doctoral Scientist. The successful candidate will investigate the regulation of neurotransmitter receptors by psychoactive drugs in the brain.

Recent doctors in science with molecular biology and neurobiology backgrounds are invited to apply. Post-doctoral appointments are for one year, renewable for a second year. The Upjohn Post-Doctoral Program is designed to provide a top quality research experience and the opportunity to publish scientific results with an excellent salary and benefits package offered. Our modern research laboratories are located in Kalamazoo, a southwestern Michigan community located midway between Detroit and Chicago. For confidential consideration, please submit your curriculum vitae to: THE UPJOHN COMPANY, Corporate Employment/Specialty Code #122, 7000 Portage Road, Kalamazoo, MI 49001. Please refer to Specialty Code #122 in your cover letter. An Equal Opportunity Employer M/F.

Our Commitment to Scientific Excellence Continues....
Postdoctoral Position in Signal Transduction

The PARKE-DAVIS Pharmaceutical Research Division of Warner-Lambert Company has a postdoctoral position available immediately for an independent and highly motivated scientist with experience in molecular biology to study signal transduction by the epidermal growth factor receptor and cell cycle dependent regulation of the activities of protein kinases and phosphatases.

Ongoing work includes: 1) the role of phosphorylation of the EGF receptor in regulation of receptor function; 2) characterization of effector proteins involved in intracellular signaling by growth factor receptors; 3) the role of serine/threonine specific protein kinases in intracellular signaling; 4) involvement of EGF-dependant proteolytic processing of the EGF receptor in receptor function.

Candidates should be recent PhD graduates with a strong background in molecular biology, cell biology, biochemistry or a related area.

Compensation includes a competitive salary, an attractive benefits package and relocation assistance. Send curriculum vitae and list of references to PARKE-DAVIS, Human Resources, Box JDM-0048, 2800 Plymouth Road, Ann Arbor, MI 48105. "Smoke-Free Work Environment"

"Equal Opportunity in Action"

PARK-DAVIS
A DIVISION OF WARNER LAMBERT

National Institutes of Health

RESEARCH SCIENTIST/POSTDOCTORAL FELLOW (Molecular Biologist)

The Laboratory of Cellular Development and Oncology, National Institute of Dental Research, seeks an outstanding candidate with graduate education and/or experience in Biochemistry and Molecular Biology for a senior postdoctoral fellowship position. Applicants should have at least 2 years postdoctoral training and research experience in signal transduction as well as mechanisms of action through non-receptor and receptor-tyrosine kinases. Additionally, the applicant should be familiar with nuclear medicine principles and radiation protection, radioreceptor binding assays, enzymology, protein purification, tissue culture techniques including biological assays for mitogens and transforming genes, expression of cloned genes in mammalian cells and the use of recombinant retroviral vectors. A substantial record of publications of original work in these areas is required. Starting salary will be commensurate with qualifications and experience.

Interested candidates should submit a curriculum vitae, several reprints, summary of research interests and names of three references no later than June 30, 1992.

Material should be sent to: Faye M. Harbrant, Personnel Management Specialist, National Institute of Dental Research, National Institutes of Health, Bldg. 31, Room 2C23, 9000 Rockville Pike, Bethesda, MD 20892.

NIH is an Equal Opportunity Employer

Protein Chemist

CIBA-GEIGY Agricultural Division's Biotechnology Research Unit in Research Triangle Park, NC seeks a Protein Chemist to provide protein sequence analysis as a unit-side service and to contribute protein purification expertise to various projects in plant genetic engineering.

The qualified candidate will have a BS/MS in Chemistry or Biology, as well as 3-5 years experience in protein sequence analysis, amino acid analysis and protein purification.

We offer a competitive salary and a generous company-paid benefits package. Please send resume, transcripts and three letters of professional reference to: Manager, Human Resources, Dept PC, CIBA-GEIGY Corporation, Agricultural Division, 3054 Cornwallis Road, Research Triangle Park, NC 27709. We Are An Equal Opportunity Employer M/F/H/V.

Science Serving Mankind

CIBA-GEIGY

Help us enhance people's lives.

As an innovator in the discovery, development and marketing of human therapeutics, Amgen is a rapidly growing leader in the biotechnology industry. Through the successful introduction of such products as EPOGEN® and NEUPOGEN®, we are able to provide talented professionals with a solid career opportunity.

Pharmaceutics & Drug Delivery

We have an opening for an individual with an MS or BS degree, solid surgical capabilities, and at least 5 years experience in the in vivo evaluation of drug delivery systems. Experience with bioanalytical techniques and the handling of radio labelled drugs is desirable. A PhD scientist who has experience in designing drug delivery systems will be considered for this position.

Amgen offers a very competitive compensation and benefits package in addition to a stimulating work environment. If you have the necessary qualifications and would like to be part of an organization that places its highest value on the contributions of its human resources, send your resume/cv to: Amgen Inc., Staffing Department, Code #S-215, Amgen Center, Thousand Oaks, CA 91320-1789. Amgen is an equal opportunity employer.

AMGEN.

Principals only, please.
POSTDOCTORAL RESEARCH ASSOCIATE UNIVERSITY OF TENNESSEE MEDICAL CENTER/KNOXVILLE HUMAN IMMUNOLOGY AND CANCER PROGRAM (DIRECTOR: DR. ALAN SOLOMON)

Position is available to study the regulation of human Ig V gene expression. Additional opportunities are available to study the pathogenesis of human AL amyloidosis in animal models. Candidates must have a recent Ph.D. in molecular biology or related fields. This position requires expertise in such techniques as (1) Northern and Southern blotting; (2) transfections; (3) T cell pathway-specific cytokine induction; and (4) hematopoietic lineage analyses following bone marrow transplantation. Applicants should have demonstrated experience in mammalian cell culture and molecular biology. Appointment is at the level of POSTDOCTORAL FELLOW or ASSOCIATE RESEARCH SCIENTIST, depending upon qualifications. Applications, including three references, should be sent to: Dr. Kenneth Morey, Department of Internal Medicine, University of Michigan, Room SSI108 MSRB1, 1150 West Medical Center Drive, Ann Arbor, MI 48109. An Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE, CYTOMETRY

The Department of Pathology, Emory University School of Medicine, is recruiting a research associate for the cytometry laboratory at Grady Memorial Hospital. The position involves the routine performance of current and developing cytometric tests for the clinical laboratory and the development of additional cytometric tests. Most importantly, the laboratory will work in close collaboration with the molecular pathology laboratory in application of cytometric techniques to evaluation of cells and tissues marked with molecular biologic reagents. The minimum requirements are a Ph.D. degree and experience documented by publications in cytometry. Send letter of application and names of four professional references to: Kenneth W. Sell, M.D., Ph.D., Professor and Chairman, Department of Pathology and Laboratory Medicine, Room 703 Woodruff Memorial Building, Emory University, Atlanta, GA 30322. Emory University is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

The Division of Geographic Medicine at Case Western Reserve University is seeking a Ph.D. or M.D. immunologist for a position as SENIOR RESEARCH ASSOCIATE OR INSTRUCTOR to work in anamebiasis vaccine program. A successful candidate will have at least 2 years of postdoctoral experience and be able to eventually become an independently funded program in this area. Please respond to: Dr. Jonathan I. Ravdin, M.D., Chief, Medical Service, VA Medical Center 111-W, 10701 East Boulevard, Cleveland, OH 44106.

RESEARCH ASSOCIATE position in Cornell University's Genome Variation Analysis Facility to provide technical expertise (e.g., DNA fingerprinting, RFLP analysis, molecular systematics) for a new multispecies facility for identifying and quantifying variation among genomes. Ph.D. required. Initial 2-year position. Salary range: $24,000 to $26,000 per year. Send curriculum vitae, three letters of reference, relevant reprints, and statement of how candidate would contribute to a multispecies facility by 1 July 1993 to Dr. Bertram Mayer, Cornell Biotechnology, Cornell University, Ithaca, NY 14853-2703. Cornell is an Equal Opportunity Employer.

FREE PRODUCT INFORMATION SERVICE

Send a letter stating the specifics about your laboratory and thank you in advance for the vendors whose products you will need. Write to:

Science New Lab Service Department
1333 H Street, NW
Washington, DC 20005

Scientists:
-e-mail queries to spec@science.com
-please read "Information for Authors" before submitting a manuscript

THE UNIVERSITY OF CALIFORNIA, SAN DIEGO is seeking a Ph.D. applicant for a POSTGRADUATE RESEARCHER. Candidates should have experience in molecular biology and/or hematopoietic stem cell biology and genetics. The position available immediately for at least 2 years. Salary range based on University of California policy. Interested individuals should send curriculum vitae and a list of recent publications (within 3 years) to: Dr. Philip W. Wintrobe, Department of Pharmacology, University of California, College of Medicine, 800 Rose Street, Lexington, KY 40536. Telephone: 606-233-6209; FAX: 606-238-1981. The University of Kentucky is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.
Letting nature take its course requires a lot of high technology.

As man’s activity in the Everglades increases, the natural cycle of life is often interrupted. But we’ve been watching and learning from this ecosystem for over 50 years. We’ve developed complex technology to help us stay out of nature’s way, and we’re being rewarded abundantly for our efforts.

Director, Water Quality Monitoring
This is a management position responsible for water quality laboratory and surface water quality data collection services including managing a laboratory with a capacity of approximately 160,000 inorganic, nutrient and physical analyses annually, and contracts for organic analyses. The selected candidate will direct surface water quality monitoring and field data collection in support of the District’s planning, operational and regulatory needs and supervise an off-site facility.

The requirements for this position are a Master’s degree in Analytical or Environmental Chemistry supplemented with coursework or advanced study in a related field. Experience with auto samplers, nutrient monitoring networks, agricultural best management practices and field/laboratory quality assurance procedures preferred, along with contract administration experience and familiarity with both organic and inorganic chemistry analytical procedures. Over 7 years’ related experience, including 2 years’ direct supervisory experience, required. LIMS and relational database management systems experience required.

The District offers a competitive compensation package and a drug- and smoke-free work environment. Please forward your resume to: Human Resources Division, Re: S692/DWQ, South Florida Water Management District, 3301 Gun Club Road, West Palm Beach, FL 33416-4680. We are an equal opportunity employer m/f/div.

South Florida Water Management District
When we talk about the environment, we mean business.

Julius-Maximilians University, Würzburg, Germany
Centre of Infectious Diseases
Group Leader Positions

The faculties of medicine and biology have formed a centre for the study of infectious diseases that comprises research groups in clinical medicine, pathology, immunology, virology, bacteriology and molecular biology. It is planned to extend the interests of the centre through the incorporation of the following new research areas:

the immunology and molecular biology of parasitic infections
the immunology and molecular biology of fungal infections

Young scientists who have earned international recognition in one of the above fields will have the opportunity to establish an independent group for the pursuit of their research goals.

The appointment of group leaders will be for a period of five years. The salary will be commensurate with training and experience and can be up to US $65,000.

Laboratory operating expenses and funding for additional personnel (post doc, post graduate students, technicians) will be granted by the Bundesministerium für Forschung und Technologie for each group on the basis of proposals submitted by the successful candidates. Laboratory facilities will be provided by the University of Würzburg.

Applications for these positions should be sent by July 30, 1992 to
Prof. Dr. Volker ter Meulen
Institut für Virologie und Immunbiologie
Versbacher Str. 7
D-6700 Würzburg, Germany

Initial applications should include a CV, a list of publications and a brief research proposal. Short-listed candidates will be requested to submit a detailed research proposal that will be forwarded for review by a commission appointed by the Bundesministerium für Forschung und Technologie.

Equal opportunity in employment is University policy.

Lectureship in Zoology (Tenurable)

Applicants should be Zoologists with an appropriate doctoral degree. Preference may be given to an applicant with demonstrated research expertise in a significant field of Developmental Biology/Embryology. The successful applicant will be responsible to the Head of the Department of Zoology (Professor Gordon Grigg) and will be expected to develop senior level teaching, as well as participate in teaching at First and Second Levels, develop an active research program and attract postgraduate students and external research funding.

Salary within the range $39,463 to $48,688 p.a.

The Department of Zoology has 17 academic staff and 20 support staff. Research interests include terrestrial and marine ecology, genetics, conservation biology, systematics, evolutionary biology, palaeontology, animal physiology, histology and cytology. Departmental facilities include an electron microscope unit, sea water aquarium system, aquaculture ponds, aviaries, a 16 m trawler, laboratories equipped for experimental physiology, histology, cytology and molecular genetics, and field stations on Stradbroke Island in Moreton Bay and Heron Island on the Great Barrier Reef. Recent University initiatives involving Zoology include Centre for Conservation Biology, Aquaculture Group, School of Marine Science, Centre for Molecular Biology and Biotechnology, and Vision Touch and Hearing Research Centre.

Gene Expression

Explore this opportunity to join Monsanto Company, a recognized world leader in plant science biotechnology. Our laboratories in Chesterfield, a suburb of St. Louis, provide state-of-the-art facilities for conducting research in plant biochemistry and molecular biology.

Monsanto is actively applying this research toward improving crop productivity. We are expanding this effort and are hiring bright, innovative scientists with experience in gene expression.

A position is available in the plant protection group of the new products division in the area of cloning and expression analysis of genes for controlling insects and fungal pathogens. This position is part of a multi-disciplinary team leading to commercialization of insect- and disease-resistant crops.

Qualifications include a BS, MS or Ph.D. (preferred) in molecular biology or biochemistry or appropriate discipline with broad technical experience in molecular biology. You must have substantial experience in cloning and expression analysis of prokaryotic/eukaryotic genes. Excellent interpersonal and communication skills are required.

We offer a highly competitive salary and benefits/relocation package. Please send your Curriculum Vitae, names of three references and a statement of your career and/or research interests to: Mrs. Marion K. Doyle, Supervisor, Human Resources-O3H, Monsanto Company, 800 N. Lindbergh Blvd., St. Louis, MO 63167. EOE. M/F/D/V.

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Cooperative Research Units
U.S. FISH AND WILDLIFE SERVICE

The U.S. Fish and Wildlife Service invites applications for Research Fishery Biologists (GS-482-11/12) to serve as the Assistant Unit Leader for Fisheries at the Arizona Cooperative Research Unit. The successful candidate will be located at the University of Arizona in Tucson, Arizona, and will receive a no salary faculty appointment.

Assistant Unit leader duties include establishing a strong research program, teaching at the graduate level, and technical assistance to resource managers on fisheries and contaminant resource issues.

Requirements of the position include a record of research productivity or resource management training and experience, an ability and commitment to teach, and an ability to administer research grants and program budgets. Candidates must meet the requirements (earned doctorate) for a faculty appointment.

For application details, contact Dr. O. Eugene Maughan (602/621-1193) or (602/621-3846). To apply directly, send a completed Standard Form 171 and OPM Form 1170 (List of College Courses) to Ms. Dot Easley, Personnel Division, Research and Development, U.S. Fish and Wildlife Service, mall stop ARLSO 725, Washington, DC 20040 (phone number 703/358-1771). Applications must reference the Arizona Assistant Unit Leader-Fisheries position, and must be postmarked no later than June 29, 1992.

The Fish and Wildlife Service and the University of Arizona are Opportunity Employers. Applications are encouraged from women and minority candidates.
Univax Biologics, Inc. is a dynamic biomedical firm focused on the development of proprietary vaccines and immunotherapeutic products for the prevention and treatment of serious infectious diseases. We are expanding rapidly, and are currently seeking a number of

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RESEARCH ASSOCIATES
& RESEARCH TECHNICIANS
to fill newly-created positions in our Research and Development Department. We offer challenging assignments, a team-oriented work environment, and the opportunity for rapid career advancement. These are highly visible positions which carry recognition for individual contributions.

Candidates should have experience in immunoreagent purification and characterization of polysaccharides and proteins, vaccine development, antibody analysis and microbiology. Knowledge of infectious diseases, immunochemistry, and biochemistry are critical to success in these roles. Candidates with educational backgrounds in biochemistry, microbiology, or a related discipline are encouraged to apply.

Univax employees enjoy an excellent compensation package which includes fully paid life and health insurance premiums, a 401k plan, and equity participation programs. For immediate consideration, please submit resumes in confidence to:

UNIVAX BIOLOGICS, INC.
Human Resource Dept.
12280 Wilkins Avenue
Rockville, Md. 20852
Fax (301) 770-3097

DEAN
COLLEGE OF ARTS AND SCIENCE
VANDERBILT UNIVERSITY

Vanderbilt University invites applications and nominations for the position of Dean, College of Arts and Science.

The Dean bears chief responsibility for the academic, fiscal, and administrative leadership of the College of Arts and Science and reports directly to the Provost. We seek a distinguished scholar with outstanding abilities in leadership and administration, who is capable of fostering high quality research and teaching. Candidates must qualify for appointment to the rank of Full Professor with tenure in a department of the College.

Vanderbilt University, an independent, private institution founded in 1873, has approximately 9,000 students and 1,400 full-time faculty members on a single campus. Its schools include the College of Arts and Science, the Graduate School, Blair School of Music, Owen Graduate School of Management, Peabody College, and the schools of Engineering, Law, Medicine, and Nursing.

The College of Arts and Science, with approximately 3,400 undergraduate and 600 graduate students, occupies a central position within the University. Its more than 300 full-time faculty members, in 22 Departments and 12 Programs, pursue a broad range of activities in teaching and research.

Vanderbilt University is committed to the principles of diversity and affirmative action. It strongly encourages nominations of and application by minority and female candidates. Vanderbilt is an Affirmative Action, Equal Opportunity Employer.

Applications should include a letter of interest, curriculum vitae and the names, addresses, and telephone numbers of at least four references. Nominations should be made by letter. Please send these materials to:

Professor Randolph Blake, Chair
College Deanship Search Committee
Office of the Provost
221 Kirkland Hall
Vanderbilt University
Nashville, Tennessee 37240
FAX: 615-322-7629

The Search Committee will begin reviewing applications immediately and continue until the position is filled.

Wyeth-Ayerst Research
We're building on our success

Wyeth-Ayerst Laboratories is a Division of Fortune 100 American Home Products Corporation, a leading manufacturer and marketer of health care products with multi-billion dollar annual sales and an impressive record of growth and profitability. We currently have the following opportunities available in our expanding research facility in Princeton, New Jersey.

DRUG METABOLISM
Pharmacokinetic/Pharmacodynamic
Ph.D. Scientist responsible for the development of preclinical pharmacokinetic/pharmacodynamic (PK/PD) programs in support of disposition studies of new drug candidates. Experience in the design and interpretation of PK/PD studies including a thorough understanding of computer programs utilized in PK/PD modeling is necessary. Candidates should have a Ph.D. in Pharmacokinetics, Biopharmaceutics or a related discipline and 3-5 years relevant experience. (Position #427)

Drug Disposition
Ph.D. Scientist responsible for conducting studies to evaluate the metabolic disposition of new drug candidates in biological samples. This will include the development of analytical methodology for the quantitation of drugs and metabolites in biological matrices. Ph.D. in Chemistry, Biochemistry, Pharmacology or related Biological discipline and 3-5 years experience in HPLC and performing extractions of biological samples. (Position #431)

CARDIOVASCULAR METABOLIC DISORDERS
Cellular/Molecular Biologist
This B.S./M.S. position will be primarily responsible for developing and maintaining cell lines, undertaking basic research projects involving cell growth and proliferation, as well as identifying and developing novel cardiovascular pharmaceutical agents. We seek a BS/MS with extensive experience in cell biology including tissue culture, monoclonal antibody production and Northern blot analysis. Experience in Molecular Biology desired. (Position #437)

Cell Biologist/Biochemist
This B.S./M.S. position in our Diabetes Drug Discovery Group focuses on the mechanisms of insulin action and insulin resistance in diabetes and the development of agents which normalize glucose. This position involves examining the insulin signal transduction pathway and some aspects of insulin action in an isolated cell system. Selected candidates will be experienced in the mechanisms of receptor signaling and intracellular signal transduction, especially in response to insulin. Knowledge of the relevant cell culture systems and experience in techniques to assess protein phosphorylation/dephosphorylation mechanisms and glucose transport is desired. (Position #525)

Wyeth-Ayerst offers an excellent compensation and benefits package in a highly professional environment. Our research laboratory is just minutes away from Princeton University and is convenient to many other cultural, educational and leisure activities. Please forward resume with salary requirements to: WYETH-AYERST RESEARCH, Employment Supervisor, (Reference Position #), CN 8000, Princeton, NJ 08543-8000. An equal opportunity employer, M/F/D/V responses encouraged. Principals only.

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Leading the Way for a Healthier World
Molecular Immunologist

PARKE-DAVIS Pharmaceutical Research Division, Warner-Lambert Company, has an opening for a Molecular Immunologist at the Assistant/Associate Scientist level in the Immunopathology - Experimental Therapy Department at our Pharmaceutical Research facility in Ann Arbor, Michigan.

The ideal candidate will have extensive experience in molecular biology, immunology and cell culture techniques. Expertise in: RNA/DNA isolation; cDNA cloning; DNA sequencing (Sanger-dideoxy)/analysis; in vitro mutagenesis; PCR analysis/cloning; stable DNA mediated transfection in Chinese hamster ovary cells; tissue culture/flow cytometric analysis; hybridoma screening; antibody characterization and purification is required.

Other requirements include:
- BS/MS in Molecular Biology/Immunology or related biomedical science with 2-3 years experience post-graduation.
- Familiarity with computers and use of software designed for: nucleic acid/protein analysis; scientific reference management; graphics generation and word processing.
- Good written and oral communication skills.
- Self-motivation and the ability to work as part of a team effort.

Employment will be at our modern facilities next to the University of Michigan north campus in an outstanding living and working environment. Interested, qualified applicants should send letter of application with curriculum vitae and names of three references in confidence to Box JDM-92194, Human Resources, PARKE-DAVIS, 2800 Plymouth Road, Ann Arbor, MI 48105. (FAX 313-996-7617) "Smoke-Free Work Environment" "Equal Opportunity in Action"

PARKES

A DIVISION OF WARNER LAMBERT

CELL CULTURE TECHNOLOGIST

HYBRIDOMA/MONOClonAL ANTIBODY DEVELOPMENT

Southern Biotechnology Associates, Inc., a leader in the production of affinity purified antibodies, has a new position of Cell Culture Technologist to assist in the expansion of our hybridoma/monoclonal antibody capability. This individual will be responsible for maintenance, monitoring, and scale-up culture of hybridoma cell lines producing monoclonal antibodies, and construction of new hybridomas.

Requirements: B.S. or M.S. in a biological science; experience cell fusion technology, including screening and subcloning assays, storage and maintenance of cell lines; a working knowledge of quantitative ELISA, immunofluorescence assays, SDS-PAGE and IEF. Experience with bioreactors would be beneficial. The position is available immediately.

Our facility is located approximately 5 miles from the University of Alabama in a suburb of Birmingham. We provide a stimulating and challenging work environment based on creativity, commitment and teamwork. In confidence, send (or FAX) your resume and the names of three references to: Southern Biotechnology Associates, Inc., Personnel Director, P.O. Box 26221, Birmingham, AL 35226. FAX (205) 945-8768.

BIOPROCESS RESEARCH SCIENTIST

The Upjohn Company, a leader in pharmaceutical research and development, has an excellent opportunity for a research scientist in our Fermentation group within Bioprocess Research Preparations. As part of a multi-disciplinary team, the successful candidate will research, develop and support the fermentation preparation of research and clinical quantities of new human and animal drugs.

This position requires a Ph.D., broadly-trained in Microbiology or Biochemistry, with an emphasis in microbial physiology and biochemistry. Experience in and knowledge of industrial fermentation technology and industrial microbiology are highly desirable. Excellent interpersonal skills as well as written and verbal communication skills are a prerequisite.

Upjohn offers a very competitive compensation and benefits package in addition to a stimulating, multi-disciplinary research environment at our modern facilities located in Kalamazoo, Michigan. For confidential consideration, please forward a resume, transcripts, two letters of recommendation and two sample publications before July 1, 1992 to: THE UPJOHN COMPANY, Corporate Recruiting/ Position Code #120, 7000 Portage Road, Kalamazoo, MI 49001. Please refer to position number 120 in your cover letter. An Equal Opportunity Employer M/F.

Our Commitment to Scientific Excellence Continues...

Reseach Assistants

Animal Cell Expression Group

Be part of a high profile scientific team researching therapeutic pharmaceuticals for degenerative and neurological diseases. Regeneron Pharmaceuticals, Inc., well known for its research into neuronal growth factors, has an immediate opportunity within our Animal Cell Expression Group.

M.S. or B.S. in Biology, Microbiology, Molecular Biology or related discipline is required, as well as strong laboratory skills in tissue culture and recombinant DNA techniques. Experience in drug amplification of integrated genes or virus-based expression systems would be a plus.

Regeneron is situated on an expansive wooded campus near Tarrytown, in Westchester County, 25 miles north of New York City. To find out more about our supportive team environment and how your contributions can contribute to our growth and yours, please send detailed resume with salary history to: Human Resources Dept., Bin-ACEG, Regeneron Pharmaceuticals, Inc., 777 Old Saw Mill River Road, Tarrytown, N.Y. 10591-6707. EOE m/f.
Research Scientist Position
DEVELOPMENTAL BIOLOGY DEPARTMENT

Amgen has a position available for a Research Scientist within the Developmental Biology Department. The successful candidate is expected to develop a rigorous research program aimed at generating transgenic mice useful in the study of cell growth and differentiation. The individual should have a PhD in the life sciences, at least two years of postdoctoral experience, and published work in the area of molecular genetics and the use of mouse embryonic stem cells.

Amgen offers a stimulating and challenging research environment where scientists are given the resources to achieve their best including opportunities for external collaborations and interactions with their peers in the academic community. Additionally, we offer an excellent compensation and benefits package. Candidates should send a curriculum vitae, with publication record and references, along with a letter describing research experience and interests, to: Robert Bosselman, PhD, Developmental Biology Department, Amgen Inc., Amgen Center, Mailstop 5-1-A-219, Thousand Oaks, CA 92370. Amgen is an equal opportunity employer.

UNIVERSITY OF COLORADO SCHOOL OF MEDICINE

DEPARTMENT OF PHYSIOLOGY

TWO TENURE TRACK POSITIONS

The Department of Physiology at the University of Colorado School of Medicine has available TWO TENURE TRACK POSITIONS, one at the Assistant Professor level, and one at Assistant Professor or higher. Although applications may be submitted at any time, selection of candidates will begin in September of 1992.

The Department Faculty have active research programs in developmental neurobiology, ion channel expression, synaptic transmission, sensory transduction, epithelial transport and secretion, and reproductive physiology. The School of Medicine is strongly research-based, with active interdepartmental programs in Cell and Developmental Biology, Immunology, Molecular Biology, and Neurosciences.

Applicants will be considered who have research interests in cellular, molecular or developmental physiology or functional organization of the central nervous system. Successful candidates will be expected to conduct vigorous independent research programs and to participate in professional and graduate teaching. Applicants should send Curriculum vitae and the names of at least three referees to:

Dr. S. R. Levinson
Chair, Faculty Search Committee
Department of Physiology, C240
University of Colorado Medical School
DENVER, CO 80262

The University of Colorado Health Sciences Center is committed to Equal Employment Opportunity and Affirmative Action. Minorities and Women are especially encouraged to apply.

PHARMACOLOGIST

The ICI Pharmaceuticals Group, dedicated to the challenge of discovering and developing important new therapeutic agents, is seeking a pharmacologist for the Urological research team based in suburban Wilmington, Delaware.

Pharmacologist: BS/MS in Biology or other life sciences with 2-5 years’ post-graduate experience. The position requires in vivo experience including dosing and surgical skills, a broad knowledge of smooth muscle pharmacology and physiology, and adequate familiarity in computer applications. The candidate should be a good team worker with both competent oral and written communication skills.

We offer an excellent salary and flexible benefits program, including relocation, and the opportunity to build a career with one of the world’s leading pharmaceutical research organizations.

For consideration, submit resume to: Melanie M. Lewis, Human Resources, ICI Pharmaceuticals Group, Concord Pike and New Murphy Road, Wilmington, DE 19897.

RESEARCH SCIENTIST

The Biological Testing Branch, Developmental Therapeutics Program, Division of Cancer Treatment, National Cancer Institute, National Institutes of Health, Public Health Service, is accepting applications for a senior level Biologist, Microbiologist or Veterinary Medical Officer position.

The incumbent will have the unique opportunity to assist in the development of preclinical in vivo testing efforts to correlate with the human tumor in vitro screen for potentially active cancer chemotherapy agents. This position will play an active role in the design and implementation of protocols to follow-up existing leads and explore newer methodology.

Applicants should have a doctoral degree or equivalent experience in appropriate scientific disciplines that would permit planning and execution of innovative and routine in vivo testing.

The position is located at the Frederick Cancer Research & Development Center in Frederick, Maryland. Salary commensurate with experience and expertise beginning at $54,607 (GS-401/701-14). Send curriculum vitae and SF-171, Application for Federal Employment to:

Dr. Joseph G. Mayo
Biological Testing Branch
National Cancer Institute-FCRDC
Building 321, Room 7
Frederick, Maryland 21702-1201
Telephone: (301) 846-5065

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ASSISTANT RESEARCH SCIENTIST
University of Michigan School of Medicine, Department of Laboratory Medicine and Pathology, Division of Hematology/Oncology, is looking for an assistant research scientist, research investigator, or postdoctoral fellow, depending upon qualifications, to participate in ongoing studies on the cellular and molecular basis and of hematopoietic diseases and normal hematopoietic function. This requires a PhD in cancer biology, biochemistry, molecular biology, or related field with at least one year of postdoctoral experience. Required is excellent knowledge of molecular techniques, tumor biology, and hematopoietic stem cells. This position is renewed annually. Submit a letter of interest, a curriculum vitae, and three references. Inquiries or applications should be sent to: Dr. J.J. Pardee, Head, Department of Laboratory Medicine and Pathology, University of Michigan, 1500 East Medical Center Drive, Ann Arbor, MI 48109-4603. Equal Opportunity/Affirmative Action Employer.

BIOLOGIST. Gather and analyze data and prepare environmental reports for governmental and private clients. Require master’s in wildlife and fisheries and knowledge of aquatic (marine/fresh), aquaculture (artificial propagation) and ecology of wildlife. Salary: $27,000 per year; 40 hours per week, 8:30 a.m. to 4:30 p.m. Job site/interview: Portland, Oregon. Send resume to: Employment Division, Attention: Job Order Number 55556302, 875 Union Street NE, Room 201, Salem, OR 97311.

CHEMIST, senior. Responsible for research relating to the development of new methods for biochemical analysis and synthesis of novel organic compounds. Design and synthesis of macroheterocyclic ligands, enzyme substrates and inhibitors, and attachment of ligands to proteins and haptens. Ph.D. in organic chemistry and graduate or postgraduate research experience in enzymatic reaction mechanisms and the design and synthesis of macroheterocyclic ligands, enzyme substrates and inhibitors. Knowledge of molecular modeling and metal binding required. Salary: $52,457 per year. Job site and interview: Palo Alto, California. Send this ad and your resume to: Syva Company, 3403 Yerba Buena Road, P.O. Box 81-105, Department CRSS, Palo Alto, CA 94303-9013. Send to: Josue M. Sheehan, Director, M.S. Biochemistry, June 15 1992. Equal Opportunity Employer M/F/H/V.

The USDA Forest Service in Parsons, West Virginia, has an open position for a research naturalist in its Water Resource Protection in Central Appalachian Forests Project. Salary: $32,423 to $42,152 (GS-11) per year. Assignment is to plan and conduct research addressing (1) monitoring impacts of forest management on biota and related water quality variables of mountain streams in West Virginia and (2) assessing impacts of in-stream fish streams in forested watersheds, particularly nonmigratory species and aquatic invertebrates. For full information, write or call: Betty Higgins, telephone: 215-975-4235.

UNIVERSITY OF MARYLAND
MICROCOSM/MESOCOSM SCIENTIST—DuPont assistance with design, implementation, maintenance, and operation of microcosms and mesocosms. Required: M.S. or equivalent experience in an environmentally oriented discipline; minimum of 4 years of experience working with multiphase experimental systems. Preferred: Working familiarity with QA/QC protocols and water quality measurement. Submit a letter of interest, résumé, and the names, addresses and telephone numbers of three references to: Dr. Thomas Malone, UMCES, Horn Point Environmental Laboratory, Cambridge, MD 21613-0776. Deadline: 15 June 1992. An Equal Opportunity/Affirmative Action Employer.

ST. JUDE CHILDREN’S RESEARCH HOSPITAL, Department of Research and Treatment of pediatric catastrophic diseases, has openings for RESEARCH TECHNOLOGISTS in biochemistry, hematopoietic cell biology, molecular biology. M.S. degree or B.S. degree with 3 years of related research experience is required. Experience in molecular biological techniques, protein purification and characterization of reagents is desirable. Interested candidates should submit a résumé to: Jeri Buchanan, Employment Manager, St. Jude Children’s Research Hospital, 332 North Lauderdale, Memphis, TN 38101. Affirmative Action/Equal Opportunity Employer.

PRINCIPAL BIOMEDICAL ENGINEER. R&D firm, specializing in development and fabrication of electronics for functional electrical stimulation (FES) systems; design of implantable devices involving a radio frequency (RF) receiver and electronics to provide electrical stimulation along with external control units (ECUs) to control the electronics of the implant through the RF interface. Selection of optimum weight, per unit volume for human body-implantable devices. Design of semi-custom-integrated circuits using complementary metal oxide semiconductors (CMOS) technology combining analog and digital functions for hybrid circuits smaller than conventional approaches. Design of novel receiver/connector. Ph.D. in biomedical engineering with 4 to 6 years of experience as research and/or project biomedical engineer. Hours: Monday to Friday, 7:30 a.m. to 4:30 p.m., overtime as needed, $5000 per month salary range. Must have proof of legal authority to work permanently in the United States. Send résumé in duplicate (no calls) to: J. Davies, Jo #1208066, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216.

PATENTS AND PATENTABLE IDEAS SCIENTIST. Cooperate seeks a joint-venture with inventors or assignees of patents, patent applications or patentable ideas in the fields of immunology, endocrinology and hormone research, bioengineering, bioreactors, environmental monitoring, genetics, genomics, toxicology, and toxicology, and related to all aspects of the aging process. Contact: 1333 H Street, NW, Suite 814, Washington, DC 20005.

DEVELOPMENTAL/MOLECULAR TOXICOLOGIST
The Division of Developmental Toxicology at FDA’s National Center for Toxicological Research (NCTR) has an opening for a STAFF SCIENTIST. Ongoing research in this division is concentrated on the adverse effects of developmental chemicals. NCTR is seeking a molecular biologist interested in applying this knowledge to developmental toxicology. Responsibilities for research are provided by NCTR. The opening is a civil service research scientist position at the GS-12/13 ($38,861 to $60,070) level. The candidate will have to undergo a preemployment and accomplishments for determination of grade level. Send résumé and letter outlining research interests to: Daniel M. Sheehan, Acting Director, Division of Developmental Toxicology, NCTR, P.O. Box 3041, RFD A, NCTR is an Equal Opportunity/Affirmative Action Employer. Qualified women and minority candidates are especially encouraged to apply.

RESEARCH INVESTIGATOR IN PERINATAL RESEARCH LABORATORY
Full-time research investigator to perform basic research into mechanisms controlling vascular smooth muscle and the effect of pregnancy and gender upon them. Will utilize existing methods with responsibility for the completeness and adequacy of the research work, adapting to new theories as they are developed. Duties include: rapid and accurate isolation of small arteries and veins using microsurgical techniques which preserve the integrity of the vascular endothelium; rapid and accurate preparation of vascular rings for mounting in the experimental apparatus; develop devices of various types for empirical studies including hardware, software, or statistical methods, prepare research results for publication, reports, papers, journals, books and other media. Identify and define problems/solutions through the scientific process in order to enhance relevance to the problem or problems being evaluated. Develop hypotheses to be tested and ways of doing so. Train and direct the work of other investigators. PhD in molecular and cell biology, with a doctorate degree or equivalent experience in molecular biology and cell biology. This position is renewed annually. Submit a letter of interest, a curriculum vitae, and three references to: Dr. Thomas Malone, UMCES, Horn Point Environmental Laboratory, Cambridge, MD 21613-0776. Deadline: 15 June 1992. An Equal Opportunity/Affirmative Action Employer.

EMBRYOLOGIST
The IVF Program of University MacDonald Women’s Hospital of Cleveland is seeking a full-time embryologist (R.S. and M.S.) to perform in vivo and in vitro fertilization and clinical services in its fertility center. Prior experience with gamete micromanipulation and cryopreservation is desired. Direct experience in human IVF and related technology is beneficial. Collaborative research opportunities are available between the infertility program and several departments at the University of Cleveland. Please send curriculum vitae to: Dr. Leon Sheean, Ph.D., Director, IVF/Andrology Laboratories, University MacDonald Women’s Hospital, 2074 Abington Road, Cleveland, OH 44106, or please FAX: 216-844-7590.

LEAD CYTOMETRY TECHNOLOGIST
Children’s Hospital, Boston, is seeking a full-time LEAD CYTOMETRY TECHNOLOGIST in our Genetics Department. Responsibilities include preparing and operating machines for cell sorting experiments. Requires experience with flow cytometry and computers. Please send résumés to: Doreen McGaff, Human Resources, Children’s Hospital, 300 Longwood Avenue, Boston, MA 02115. Equal Opportunity Employer.

STAFF SCIENTIST
For manufacturer in the Cincinnati area. Responsible for the development of new technologies for hair and skin care products, requiring an expertise in molecular biology, protein biochemistry, and cell culture. Conduct research on the regulation of human hair follicle and skin cells by using techniques such as gene cloning, gene expression (in both prokaryotic and eukaryotic systems), cell culture, cell transfections, enzyme assays, RNA detection and quantitation, and analysis of protein–nucleic acid interactions. Supervise technical personnel in the performance of the above research. Ph.D. in biochemistry or molecular biology required plus 1 year of experience in the job offered or 1 year of experience as pre- or postdoctoral researcher in cell and gene regulation. One year of experience must involve cDNA and genomic library construction, cDNA and gene cloning, mapping and probe preparation. Preferred to have experience in cDNA and genomic library construction, cDNA and gene cloning, mapping and probe preparation. Send résumé to: Genencor International, Inc., P.O. Box 1618, Columbus, OH 43216.

SCIENTIST
Genencor International, Inc., a biotechnology company specializing in the production of industrial enzymes and specialty chemicals, is seeking an enzymologist with experience in the area of red/orange enzymes. We require a Ph.D. in enzymology or related field. Experience in computer-aided enzyme design and various enzymes/and/or peroxidases desirable. Postdoctoral experience preferred. To apply, please send your resume to: Genencor International, Inc., Department DB, 180 Kimball Way, South San Francisco, CA 94080. Equal Opportunity Employer.

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- The broadest choice of rotors and application-matched configurations in the industry.
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