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AAAS Travels

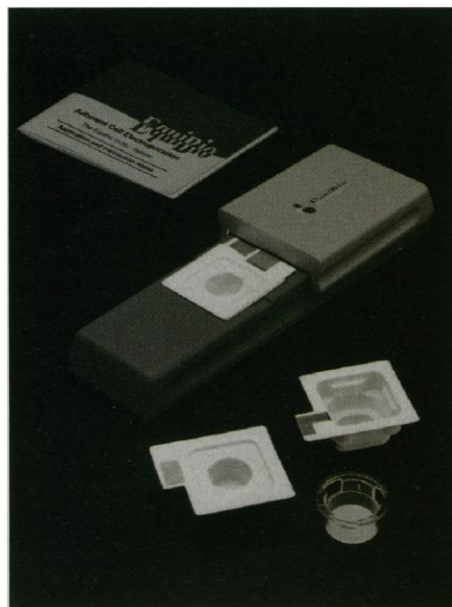
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PRODUCTS



membrane throughout the electroporation process, thus reducing cell damage and mortality, which in turn improves transfection efficiency. **EquiBio.** For information call +44 1622 746 300 or circle 138 on the reader service card.

Custom DNA Synthesis

A custom DNA synthesis service features oligonucleotides purified by high performance liquid chromatography (HPLC). All oligonucleotides are delivered with full documentation including an analytical HPLC trace ensuring purity levels in excess of 98%. **Quantum Biotechnologies.** For information call 888-362-5487 or circle 139 on the reader service card.

Genetic Data Management Software

Cyrillic version 2.1 is pedigree drawing and genetic data management software for Windows. This new release increases the amount of information that can be stored in a family file, brings greater speed to drawing family trees, and simplifies risk calculations. New tools and features include support for mul-

tiple diseases and quantitative loci for each family, markers for more than one chromosome in each family file, table view of family information, symbol toolbar, and keyboard shortcuts. A new disease locus type makes calculation of genetic risk much simpler. **Cherwell Scientific.** For information call 415-852-0720 or circle 140 on the reader service card.

Enzyme Toolbox

The Cleavase Enzyme Technology Toolbox offers researchers powerful alternatives for nucleic acid detection and sequencing as well as for measuring gene expression, quantifying viral load, and diagnostic screening. The toolbox makes use of a proprietary group of structure-specific cleaving agents called Cleavase Enzymes. Because each enzyme has different cleavage characteristics, using the enzymes singly and in combination allows the user to produce high, medium, or low cleavage frequencies needed to solve a variety of DNA and RNA analysis problems. **Third Wave Technologies.** For information call 608-273-8933 or circle 141 on the reader service card.

Autoradiography Pen

The Bio-Imager Pen allows the recording and positioning of information on membranes and provides permanent records. Bio-Imager contains a nontoxic phosphorescent writing material that displays clear images on exposure to x-ray film. The writing material generates a greenish white glow in the dark and is recharged by light to produce the image. A Bio-Solventor Pen is also available to erase the writing if necessary. **Accurate Chemical & Scientific.** For information call 516-333-2221 or circle 142 on the reader service card.

Microbe Detection

The MicroCount System detects microorganisms three times faster than the traditional membrane filtration method, alerting users to potential contamination earlier. The system makes use of bioluminescence chemistry to enumerate organisms on a 96-well filter plate in just 24 hours. The system can test the microbial quality of filterable liquids used to manufacture pharmaceuticals including tap water, make-up (purified) water, and raw materials. The system can also be used to test non-sterile pharmaceutical products. It is semi-automated; a programmable luminometer adds the reagents and reads the results, thus reducing the risk of inadvertent con-

tamination. The luminometer can output the results to a personal computer. **Millipore.** For information call 617-275-9200 or circle 143 on the reader service card.

High Weight Genomic DNA Extraction

The *Mega Long* makes use of a novel device, the *Tube-O-DIALYZER*, to extract high molecular weight (> 100kb) genomic DNA without any physical manipulation. The protocol involves isolation of the nuclei under mild extraction conditions, then transfer of the nuclei or whole sample into the *Tube-O-DIALYZER* for digestion and dialysis. The result is a fully hydrated, ready-to-use product. **Geno Technology.** For information call 314-534-0075 or circle 144 on the reader service card.

Image Archiving Software

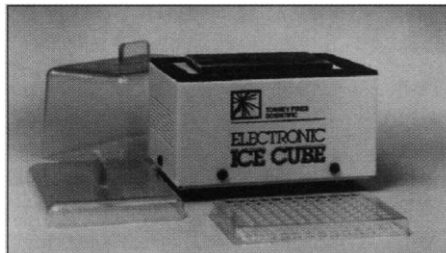
Clemex R'Kive software provides a new approach to archiving scientific images and related files. The software is integrated with Microsoft Explorer, and allows users to store their files in project folders, which are then archived automatically to a chosen medium including tapes, high-capacity drives, CD-ROM, and CD re-writable disks. If a hard copy of an image is required, the addition of a color printer (dye-sublimation or laser) used in conjunction with the software can replace traditional film-based methods and offer similar resolution at a fraction of the cost. The software runs on Windows 95 and NT. **Clemex Technologies.** For information call 514-651-6573 or circle 145 on the reader service card.

Electronic Ice Cube

The IC10 Electronic Ice Cube is for chilling samples to below 0° C on the bench or in the field. It is a Peltier-driven unit with a chilled plate surface measuring 7.3 cm by 11.1 cm. The plate surface is open and accessible for use with robotic systems. The plate size works for 96-well assay plates and aluminum blocks designed for 0.2-ml, 0.5-ml, and 1.5-ml centrifuge tubes and other samples. It can even

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serve as a chilled microscope stage. The chilling module measures only 16.5 side to side by 12 cm deep by 8.9 cm high. The unit comes with the chiller module, a 12-volt DC benchtop power supply, an AC line cord, and a cable connecting the power supply to



the chiller module. This cable has an automobile cigarette lighter plug on one end for powering the chiller module in the field. **Torrey Pines Scientific.** For information call 619-755-0071 or circle 146 on the reader service card.

Literature

Novocastra Laboratories Product Catalog 1997 features more than 350 high-quality monoclonal and polyclonal antibodies and a range of pre-labeled novel oligonucleotide probes. The products have applications in immunohistochemistry, flow cytometry, immuno-

blotting, and in situ hybridization. Specific research areas include hormone receptors, tumor markers, cell cycle associated proteins, oncoproteins, oncosuppressors, and muscular disease. **Vector Laboratories.** For information call 415-697-3600 or circle 147 on the reader service card.

Glycoprotein Monosaccharide Analysis Using High-Performance Anion-Exchange Chromatography with Pulsed Amperometric Detection and Determination of Trifluoroacetic Acid in Peptides are technical notes. **Dionex.** For information call 408-737-0700 or circle 148 on the reader service card.

Alert the Media! It's Alive! is a free wall guide highlighting Sigma's wide array of microbial media and media components. The alphabetical reference includes descriptions and other pertinent information on more than 85 microbial media and associated products used in biotechnology. **Sigma Chemical.** For information call 800-325-3010 or circle 149 on the reader service card.

A series of application notes details solid phase extraction methods for use in environmental testing laboratories. **J.T. Baker.** For information call 800-582-2537 or circle 150 on the reader service card.

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POSITIONS OPEN

STANFORD UNIVERSITY DEPARTMENT OF CHEMISTRY

Several positions available for tenure-track faculty appointments, open rank, in the general areas of **ORGANIC CHEMISTRY** or **PHYSICAL CHEMISTRY**. Completed applications must be received by October 15, 1997. Appointment commences on September 1, 1998. Applicants must be strongly motivated toward creative research and have a commitment to teaching at the undergraduate and graduate levels.

Applications in the general area of organic chemistry should include a current curriculum vitae and list of publications and a brief statement of research interests (three pages or less), and arrange to have three letters of reference sent on your behalf, to:

Chair, 1997-98 Organic Chemistry
Search Committee
Department of Chemistry
Stanford University
Stanford, CA 94305-5080

Applications in the general area of physical chemistry should include a current curriculum vitae and list of publications and a brief statement of research interests (three pages or less), and arrange to have three letters of reference sent on your behalf, to:

Chair, 1997-98 Physical Chemistry
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TENURE-TRACK PRINCIPAL INVESTIGATOR

The Lab of Receptor Biology and Gene Expression (LRBGE), Division of Basic Sciences, NCI, is recruiting for a tenure-track Principal Investigator to develop an independent research program. The proposed research should focus on the study of gene regulation in the context of chromatin and the nuclear environment. Appropriate areas would include: chromatin structure and gene regulation; the biology and function of nuclear receptors; gene expression and chromosomal domains; regulation of cell cycle; transcription from nucleoprotein templates; and structure of the interphase nucleus. The candidate should have completed a Ph.D. or M.D./Ph.D. program in an area of basic biomedical research, as well as a period of postdoctoral study in an allied field. The appointee will be provided with a complete start-up package, including technical and postdoctoral support, supplies and equipment necessary for the proposed research, and space appropriate for the program. The deadline for applications is September 1, 1997; candidates should submit a current curriculum vitae, bibliography, description of proposed research, and three letters of recommendation to:

Ms. Lisa Kelly, Administrative Officer
ARC 41, OIM, NCI
Room A100, Building 41
Division of Basic Sciences
National Cancer Institute
Bethesda, MD 20892-5055
Telephone: 301-496-1841
FAX: 301-435-2779

NCI is an Equal Opportunity Employer. Selection will be based on merit only.

ENVIRONMENTAL TOXICOLOGY/CHEMISTRY

tenure-track ASSISTANT PROFESSOR position available starting January 1998. Ph.D. degree required. Postdoctoral research preferred. Individual will teach undergraduate and graduate courses, conduct research, and mentor Master's students. Teaching responsibilities may include environmental toxicology and chemistry, risk assessment, and environmental science core courses. Emphasis is in biochemical/cellular environmental toxicology and risk assessment. Review will begin September 15 and continue until the position is filled. Send full curriculum vitae, interest statement, and evidence of teaching effectiveness to: Wayne G. Landis, EnvTox/Chem Search Committee, Huxley College Environmental Studies, Western Washington University, Bellingham, WA 98225-9181. FAX: 360-650-7284. Additional information available online at website: <http://www.wvu.edu>. Affirmative Action/Equal Employment Opportunity Employer.

POSITIONS OPEN

WASHINGTON STATE UNIVERSITY FACULTY POSITION IN BIOCHEMISTRY AND BIOPHYSICS

The Department of Biochemistry and Biophysics is seeking to fill a **TENURE-TRACK ASSISTANT** or **ASSOCIATE PROFESSOR** position beginning August 1998 or later. Applicants should have research interests and experience in biomolecular function and structure that would complement existing departmental strengths. Appropriate areas include: enzyme action, protein folding, protein engineering, protein-nucleic acid or protein-protein interactions, and biochemical signaling. Candidates should have a Ph.D. in biochemistry, biophysics, or a related discipline; postdoctoral training; ability to communicate effectively with students and colleagues; and a record indicating outstanding abilities and potential in research and teaching. The successful candidate will be expected to develop and maintain a vigorous research program supported by extramural funding, train graduate students, and participate in graduate and undergraduate teaching. Screening of applicants will begin October 15, 1997, and continue until the position is filled. Send letter of application, curriculum vitae, a statement of current and long-term research interests, and arrange for three letters of reference addressing research potential, teaching and communication skills to be sent to: Dr. Michael J. Smerdon, Search Committee Chair, Department of Biochemistry and Biophysics, Washington State University, Pullman, WA 99164-4660. Washington State University employs only U.S. citizens and lawfully authorized non-U.S. citizens. Washington State University is an Equal Opportunity/Affirmative Action Educator and Employer. Members of ethnic minorities, women, Vietnam-era or disabled veterans, persons of disability, and/or persons age 40 or over are encouraged to apply.

PROTEIN SEQUENCE/PEPTIDE SYNTHESIS CORE FACILITY DIRECTOR

The University of North Carolina at Chapel Hill is seeking a director for an expanding, interdepartmental, state-of-the-art protein core facility. Appropriate candidates must have a Ph.D. in chemistry or a biological science and considerable experience in protein sequencing, time-of-flight mass spectrometry, and HPLC applications. Experience in peptide synthesis is also highly desirable. Successful candidates must also be adept at interacting with investigators of varying backgrounds who are in need of the core's specialized services, and they should have an aptitude for equipment maintenance and troubleshooting. Finally, they should also have demonstrated experience in supervising the activities of others. Principal functions will be to direct the daily activities of core personnel, operate the core protein sequencer, establish and perform in-gel digestion methodology as an approach to micro sequencing, and maintain an effective record keeping/billing system. Additionally, the manager will play a key role in the development of new services. Review of applications will begin October 1, 1997. Interested candidates should apply to:

David Klapper, Ph.D.
Chair, Facility Director Search Committee
Department of Microbiology and Immunology
School of Medicine
University of North Carolina at Chapel Hill
Chapel Hill, NC 27599-7290

The University of North Carolina at Chapel Hill is an Equal Opportunity Employer.

TENURE-TRACK FACULTY POSITIONS TEXAS TECH UNIVERSITY HEALTH SCIENCES CENTER

The Department of Cell Biology and Biochemistry is seeking **ASSISTANT/ASSOCIATE PROFESSORS** who desire the opportunity to conduct strong independent extramurally funded research careers in cellular, developmental, or molecular biology, and be involved in the graduate and medical teaching programs. Applications will be reviewed upon arrival and will be accepted until the positions are filled. Please send a curriculum vitae, including a statement of research interests, and names and addresses of references to: Dr. James C. Hutson, Chair—Faculty Search Committee, Department of Cell Biology and Biochemistry, Texas Tech University Health Sciences Center, 3601 4th Street, Lubbock, TX 79430. FAX: 806-743-2990. Texas Tech University Health Sciences Center is an Equal Employment Opportunity/Affirmative Action Employer.

POSITIONS OPEN

CHAIRPERSON DEPARTMENT OF MICROBIOLOGY, MOLECULAR GENETICS AND IMMUNOLOGY

The University of Kansas School of Medicine invites applications and nominations for the CHAIR of the Department of Microbiology, Molecular Genetics and Immunology. Candidates must have a Ph.D. or M.D. degree, an outstanding record of research accomplishments, experience in graduate and medical education, strong leadership, communication, and management skills. Emphasis will be placed on recruiting an individual whose research interest is molecular genetics of infectious disease or immunogenetics.

Curriculum vitae, including the names of four references, should be sent to:

S. J. Enna, Ph.D.
Chair, Microbiology Search Committee
Department of Pharmacology, Toxicology
and Therapeutics
University of Kansas School of Medicine
3901 Rainbow Boulevard
Kansas City, KS 66160-7501

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CHAIRPERSON DEPARTMENT OF ANATOMY AND CELL BIOLOGY

The University of Kansas School of Medicine invites applications and nominations for CHAIR of the Department of Anatomy and Cell Biology. Candidates must have a Ph.D. or M.D. degree, an outstanding record of research accomplishments, experience in graduate and medical education, strong leadership, communication, and management skills. Emphasis will be placed on recruiting an individual whose research interest is cell biology with molecular genetics approaches.

Curriculum vitae, including the names of four references, should be sent to:

Billy G. Hudson, Ph.D.
Chair, Anatomy and Cell Biology Search Committee
Department of Biochemistry and Molecular Biology
University of Kansas School of Medicine
3901 Rainbow Boulevard
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ASSISTANT PROFESSORSHIP IN BIOLOGY

The Department of Biology at West Virginia University invites applications for a tenure-track position at the level of beginning Assistant Professor in the area of cellular and molecular biology. Subject to funding approval, this position will be available August 15, 1998. Applicants must have a Ph.D., or equivalent, with appropriate postdoctoral training. Teaching is an important consideration and the successful candidate will be expected to teach in the undergraduate and graduate programs. Each candidate must be prepared to establish a strong externally funded research program. We are seeking scientists whose research interests are in the bioregulation of aging, bone, gene expression, or reproduction, but strong candidates in other areas will be considered. Please submit a curriculum vitae, a statement of teaching and research interests, and provide the names, addresses, and telephone numbers of three referees to: **Cellular and Molecular Biology Search Committee, P.O. Box 6057, Department of Biology, West Virginia University, Morgantown, WV 26506-6057. Review of applications will begin on September 15, 1997. West Virginia University is an Affirmative Action/Equal Opportunity Employer. Women, individuals with disabilities, and minority candidates are encouraged to apply.**

POSITIONS OPEN

PHARMACEUTICS (NUCLEOTIDE THERAPEUTICS/MEMBRANE BIOPHYSICS) School of Pharmacy University of Colorado Health Sciences Center

The Department of Pharmaceutical Sciences invites applications for a 12-month, tenure-track faculty position at the level of **ASSISTANT PROFESSOR**. Applicants must possess a Ph.D. degree in a relevant discipline and have demonstrated expertise in the cellular delivery, stability, and analysis of nucleotide-based therapeutics (antisense, ribozymes, gene therapy, etc.). The successful candidate will be expected to establish an extramurally funded research program and to participate significantly in the school's professional and graduate teaching programs.

Candidate screening will begin immediately and continue until the position is filled. Applicants should send a letter of interest, a curriculum vitae, and the names of three references with regular and e-mail addresses and telephone and FAX numbers to:

Dr. Mark C. Manning, Chair,
Search Committee
Department of Pharmaceutical Sciences
School of Pharmacy, Campus Box C-238
University of Colorado
Health Sciences Center
4200 East Ninth Avenue
Denver, CO 80262

The University of Colorado Health Sciences Center is committed to Equal Opportunity and Affirmative Action.

BIOLOGY

ENVIRONMENTAL BIOLOGIST. The Department of Biology invites applications for a tenure-track position at the Assistant Professor level, effective July 1, 1998 (subject to budgetary approval). Candidates must have a recent Ph.D., at least one year of postdoctoral experience, and a productive research record. The research focus must be on aquatic systems. As well as establishing an externally funded research program, the successful candidate will be expected to participate in the teaching of undergraduate and graduate classes, including the development of an advanced course in his/her area of expertise. Start-up research funds will be provided. The new appointee can expect a reduced teaching load in the first two years.

Submit a letter of application, outlining research goals, a summary of teaching experience, and a curriculum vitae to: **Dr. W. Chapco, Head, Department of Biology, University of Regina, Regina, SK, S4S 0A2 Canada. FAX: 306-585-4894; Telephone: 306-585-4231; e-mail: william.chapco@uregina.ca.** Candidates should arrange to have at least three letters of reference sent to the address above. The closing date for application is November 15, 1997. Further information on the department is available on the website: <http://www.biol.uregina.ca>.

In accordance with Canadian Immigration Regulations, preference will be given to citizens and permanent residents of Canada. The University of Regina is committed to the principle of employment equity.

RESEARCH ASSOCIATE

A non-tenure-track position to maintain and operate sequential ICP instrumentation and to assist the Director in nutritional, environmental, and research analyses. Familiarity with GLP regulations and strong oral and written communications considered valuable assets. M.S. in analytical chemistry, chemistry, biochemistry, or equivalent is a minimum, with analytical experiences to include ICP, GLC, and HPLC. Salary range is \$25,000 to \$30,000 annually. Interested applicants please send a cover letter, résumé, and three letters of reference to: **Dr. Thomas Mawhinney, Director, Experiment Station Chemical Laboratories, College of Agriculture, Food and Natural Resources, Room 4, Agriculture Building, University of Missouri, Columbia, Missouri 65211. The search will continue until position is filled. Females and minorities are encouraged to apply. The University of Missouri is an Equal Employment Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

ASSISTANT PROFESSOR POSITIONS MICROBIOLOGY AND PLANT SYSTEMATICS

The Department of Botany and Microbiology at Auburn University seeks to fill two tenure-track positions at the Assistant Professor level. The successful candidate for the Microbiology position will have responsibility for courses in microbial physiology as well as general microbiology or general biology. Candidates with a record of research in some area of microbial physiology, yeast genetics, and/or signal transduction are preferred. The successful candidate for the Plant Systematics position will teach plant taxonomy/systematics and in the general biology program. Candidates with a research program related to some area of plant systematics utilizing molecular techniques are encouraged to apply. For both positions a Ph.D. degree in a relevant area is required, and candidates with postdoctoral experience and demonstrated ability to establish a strong, independent, and extramurally funded research program are preferred. Further information is available on the Internet at: http://www.auburn.edu/academic/science_math/botany/docs/current.html. A complete curriculum vitae, brief statements of future research interests and teaching experience, and three letters of reference should be sent to: **Dr. Robert Locy, Search Committee Chairman, Department of Botany and Microbiology, 101 Life Sciences Building, Auburn University, Auburn, AL 36849. Review of applications begins September 15, 1997 and continues until a person is recommended for appointment. Auburn University is an Equal Opportunity/Affirmative Action Employer, and actively seeks applications from qualified women and minority candidates.**

ASSISTANT PROFESSORS (2) in EVOLUTIONARY BIOLOGY/ECOLOGY. The Department of Biological Science at Florida State University invites applications for two positions at the Assistant Professor level. We are particularly interested in candidates in evolutionary ecology and/or systematics, but would consider any excellent candidate who will complement our current faculty in ecology, conservation biology, and evolution. Teaching responsibilities will include an undergraduate course in evolution and participation in the graduate program. Applicants should send a curriculum vitae, a statement of teaching interests, a description of research interests and goals, and relevant reprints. Applicants should also provide the names and telephone numbers of three references and arrange to have letters of recommendation sent to the search committee. All applications should be submitted to: **Ecology and Evolutionary Biology Search Committee, Department of Biological Science, Florida State University, Tallahassee, FL 32306-1100. E-mail: search3@bio.fsu.edu; website: <http://www.fsu.edu/biology>. Florida State University is an Affirmative Action, Equal Opportunity Employer.**

ASSISTANT PROFESSOR OF BIOLOGY. The University of Pittsburgh at Bradford invites applications for a tenure-track position beginning January 1998 or September 1998. Ph.D. required. Applicants must be able to teach introductory biology, cell biology, cellular physiology, molecular biology, and courses in area of expertise. Excellence in teaching, academic advising, and the ability to direct undergraduate research are essential. For Pitt-Bradford information see website: www.upb.pitt.edu. Please provide curriculum vitae, letter of application stating teaching experience and research interests, official transcripts, and three letters of recommendation by October 15, 1997, to: **Dr. Francis Mulcahy, Chair, Biology Search Committee, University of Pittsburgh at Bradford, Bradford, PA 16701-2898. Affirmative Action/Equal Opportunity Employer.**

ASSISTANT PROFESSOR DEPARTMENT OF PHARMACOLOGY Vanderbilt University School of Medicine

We are seeking candidates for a tenure-track faculty position in the area of molecular signal transduction, broadly defined. Particular attention will be given to individuals with a multifaceted experimental program, especially including genetic strategies.

Candidates should send, before September 15, 1997, a description of their anticipated research program, a curriculum vitae, and at least three letters of reference to: **Lee E. Limbird, Ph.D., Professor and Chair, Department of Pharmacology, Vanderbilt University Medical Center, Nashville, TN 37232-6600.**

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Sequana Therapeutics, Inc.

Sequana Therapeutics, Inc. is a leading genomics company dedicated to the discovery of genes associated with the pathology of common human diseases. We are currently seeking senior-level scientists for our gene discovery programs. Sequana has strategic alliances with Glaxo Wellcome, Boehringer Ingelheim and Corange International, and research programs in NIDDM, asthma, osteoporosis, obesity, schizophrenia, CNS and cancer. We are presently seeking the following talented individuals to contribute to these programs:

BIOCOMPUTATIONAL SCIENTIST AND ANALYST

We seek a motivated Ph.D.-level scientist with demonstrated experience in molecular biology and computer science to analyze sequence data associated with our disease projects. The selected candidate will create and maintain databases associated with the project, and will contribute to the design and extension of Sequana's bioinformatics infrastructure. A good understanding of positional cloning methods, molecular biology, genetics, and associated software (e.g., BLAST, GCG, GRAIL) is required. The successful candidate will be comfortable working in a UNIX environment and programming in Perl and/or C, C++. (Job code: Sci/97-38)

LEAD SCIENTIST

We seek a motivated Ph.D.-level scientist with proven experience in protein sequence analysis to develop algorithms of large-scale automated data processing and curation. Programming experience in C, C++ and Perl is required. Understanding of the relational and object-oriented database technology is a plus. Minimum of MS in a relevant scientific discipline required. (Job code: Sci/97-39)

SENIOR SCIENTIST

Responsible for directing a team of researchers to clone complex disease genes using positional cloning, sequencing, and sequence analysis technologies. We require a Ph.D. or MS in Genetics or Biology with 3+ years experience in automated DNA sequencing and sequence analysis. The selected candidate must be familiar with positional cloning and gene identification techniques. (Job code: Sci/97-37)

SCIENTIST I

As a member of our biology group, you will be responsible for generating monoclonal antibodies and assist in ES cell culture. This will involve cell fusions, screening hybridomas, and homologous recombination screening. A BS degree in Biology or related field with experience in generating monoclonal antibodies or 2-3 years' experience in tissue culture is required. (Job code: Sci/97-40)

UNIX SYSTEMS ADMINISTRATOR

We seek a UNIX Systems Administrator that will be responsible for server maintenance, workstation hardware setup/installation, software installation/support, and modification of systems configurations and operating systems. Required background must include a minimum of 2 years of Sun Solaris experience, Bachelors Degree in Computer Science (or equivalent), and 2 years of general networking experience. (Job Code: Sci/96-16)

ENGINEER II (SYBASE DBA)

We are looking for an Engineer II that will be responsible for database performance and maintenance. Our database system is integral to the operation of our genetics and DNA sequencing laboratories, developed using Sybase 11 technologies. Will maintain the schema and all source code as well as perform backups, DBCC checks, and provide Sybase expertise to a staff of application developers. The selected candidate must have a minimum of 5 years of SQL and Sybase experience, Bachelors Degree in Computer Science or related fields and 3-4 years of general programming experience. Familiarity with ERWIN or a like tool a plus. (Job code: Sci/96-34)

Sequana Therapeutics is a publicly-held corporation headquartered in La Jolla, CA. Our executive offices and laboratory facilities are located in a science park across from the Scripps Research Institute, about one mile from UCSD and The Salk Institute. We offer a highly competitive salary, excellent benefits package, and relocation assistance where appropriate. Please mail or fax resume to: Sequana Therapeutics, Inc., Att: HR/ Code (see above), 11099 North Torrey Pines Road, Suite 160, La Jolla, CA 92037. Fax: (619) 452-7420. We are an equal opportunity employer.
www.sequana.com



POSTDOCTORAL RESEARCH ASSOCIATE

Ernest & Julio Gallo Winery, the largest winery in the world, is seeking a Postdoctoral Research Associate to work on a challenging research project in their Genetics Group.

You will participate in current group research projects that include germplasm evaluation, disease resistance, genomic mapping and fingerprinting, gene isolation and characterization. This position requires a Ph.D. in Plant Genetics/Biochemistry or related field with a strong background in molecular biology and biochemistry. Experience with gene discovery techniques is highly desirable.

To pursue a career with the leading international wine producer, please send resume to: E. & J. Gallo Winery, Human Resources Development - Research Assoc., 600 Yosemite Blvd., Modesto, CA 95354. Equal Opportunity Employer.



THE WINERY OF

Ernest & Julio Gallo

INNOVATIVE TECHNOLOGY ACCELERATING DISCOVERY

Alanex Corporation, a subsidiary of Agouron Pharmaceuticals, Inc., is a rapidly expanding drug discovery company in the La Jolla scientific hub of San Diego, California. We have created an innovative combinatorial chemistry technology that accelerates the drug discovery process by integrating the automated design, high speed synthesis, and high throughput screening of small molecule libraries.

We currently have openings for motivated scientists at several levels in all departments. Successful candidates will be competent in both written and oral communication, will have excellent organizational skills, and will be able to work both independently and as members of multidisciplinary project teams. Experience in the pharmaceutical industry is preferred.

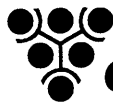
HIGH THROUGHPUT SCREENING RESEARCH SCIENTIST

We have an opening in our High Throughput Screening Group for a creative research scientist. This high profile position requires a PhD with 3-5 years' postdoctoral experience and at least 2 years HTS experience. The successful candidate will have extensive experience in developing both enzyme and cell based assays for HTS applications. Excellent data management skills are essential, and supervisory experience is desired. Code: 125/JMM/S

METABOLISM AND PHARMACOKINETICS RESEARCH SCIENTIST

The successful candidate will be responsible for the development of rapid in vitro assays and in vivo pharmacokinetic models to help guide our lead optimization efforts. This position requires a PhD and 2-5 years' postdoctoral experience in characterizing the metabolic transformation of novel compounds. Experience in metabolite identification is also desired. Code: 125/JMM2/S

Alanex Corporation offers competitive salaries and an excellent benefits package, including stock options. Please mail a detailed resume to: Human Resources, Attn: Code (see above), Alanex Corporation, 3301 North Torrey Pines Court, La Jolla, CA 92037-1022, or email to hr@alanex.com. EOE



**ALANEX
CORPORATION**

A Subsidiary of
Agouron Pharmaceuticals, Inc.



BIOTECHNOLOGY

CORVAS INTERNATIONAL, a biopharmaceutical company, is engaged in the design and development of next-generation therapeutic agents for the prevention and treatment of major cardiovascular and inflammatory diseases.

We have several important new career opportunities in the areas of vascular and tumor biology. These new positions will play a prominent role in the development of a new and exciting technology focused on the identification and characterization of endothelial surface proteins as part of a new multidisciplinary approach in developing new drug delivery strategies based on vascular targeting. We are looking for creative, enthusiastic and dedicated people with a proven ability to work independently who will move this technology forward toward the discovery and development of a new generation of therapeutic modalities to treat a broad spectrum of diseases, including cancer and cardiovascular disorders.

PROTEIN ANALYTICAL CHEMIST

Candidates must have extensive experience in multidimensional protein separations. Strong preference will be given to those individuals with specific experience in two dimensional gel electrophoresis and associated densitometric data analysis. Additional experience in microsequencing and/or mass spectrometric analysis of proteins and peptides is desired.

EXPERIMENTAL TUMOR BIOLOGISTS

We are looking for two individuals who have extensive experience in the establishment, implementation, and analysis of experimental models of solid tumor growth. The ability to use both conventional and immunohistochemical approaches to tissue analysis is required. A knowledge of vascular biology with an emphasis on the vasculature of solid tumors is highly desirable.

MOLECULAR BIOLOGISTS

We are looking for several individuals to form a core group in molecular biology that will be responsible for the molecular cloning and expression of novel protein targets. Proven experience in the areas of cDNA cloning (conventional and expression-based methodologies), sequencing and analysis is required. Additional experience in the area of heterologous gene expression in mammalian cell systems is highly desirable.

For all of the positions described above, a BS, MS, and/or Ph.D. or equivalent is required. Prior experience in an industrial research environment is preferred.

We offer an attractive compensation package, equity participation, and a highly interactive, stimulating scientific environment. For consideration, please send/fax CV with letter to: **Corvas International, HR, 3030 Science Park Road, San Diego, CA 92121; Fax (619) 455-5169; www.corvas.com.** EOE.

CORVAS
INTERNATIONAL

Purdue Pharma L.P., a growing ethical pharmaceutical company, is expanding our R&D facility which is located 15 minutes from the GWB in southern Westchester County, NY. The following are highly visible positions in a rapidly growing environment.

Pharmaceutical R&D Opportunities

PHARMACEUTICAL ANALYSIS SCIENTISTS

Successful applicants will be responsible for assay development and validation, specifications, dissolution methodologies and special projects. Industrial pharmaceutical analysis experience in research and development is required, as well as experience with HPLC, GC, UV/VIS, NMR and wet chemistry. Requirements include a BS, MS, or Ph.D. Degree in Chemistry; knowledge of GMPs and good documentation skills.

TOXICOLOGIST

We are seeking an individual to oversee non-clinical drug safety evaluation studies. This includes selecting contract labs; performing on-site monitoring; reviewing, summarizing, and interpreting the studies as well as writing non-clinical portions of regulatory submission, both domestic and international. Approximately 40% travel will be required. A Ph.D. in Toxicology is preferred with at least 3 years' experience in performing non-clinical toxicology/drug evaluation studies at a pharmaceutical company or contract laboratory. Solid knowledge of pharmaceutical regulatory toxicology and GLPs is a must. Knowledge of opioid pharmacology/toxicology and non-clinical development of biologicals is desirable.

SECTION LEADER

You will be responsible for a group of 5-7 scientists involved with methods development, method validation, and routine bioanalyses in support of both preclinical and clinical studies. This newly-created position requires a minimum of 5 years' pharmaceutical expertise in analyzing drugs primarily by HPLC in biological fluids. Previous supervisory and managerial experience is required along with outstanding written and verbal communication and interpersonal skills. Candidates must possess exceptional competency in the application of current regulatory requirements (cGMP, cGCP) to the bioanalytical laboratory environment. Creativity and initiative are needed for this key position.

RESEARCH QUALITY ASSURANCE AUDITORS

Two positions are available. You will be responsible for performing internal and external GMP/GLP audits. Participation in process validation and team-driven activities will also be expected. To qualify, you must have a B.S. or M.S. Degree in Science, QC/QA pharmaceutical industry experience and strong oral and written communication skills. Audit expertise in a research environment is a definite plus.

GROUP LEADER/ASSISTANT DIRECTOR

Qualified applicants will have 5+ years' experience in pharmaceutical analysis of drugs, excipients, and dosage forms in preparation for regulatory submission. Respondents must be highly motivated, self-starters with demonstrated leadership skills and supervisory experience. Knowledge of FDA/ICH requirements is mandatory.

CHROMATOGRAPHY SYSTEMS SPECIALIST

Responsibilities include computer support of data acquisition and analysis in R&D including, but not limited to, chromatography systems. Qualified applicants will have 3-5 years' experience supporting Access *Chrom, Turbochrome or similar systems in a GMP regulated environment. Experience with LIMS, Excel/VBA or scientific graphing and statistics packages is very desirable. Strong communication skills and a team orientation are essential.

Purdue Pharma L.P. offers competitive salaries, an extensive benefits package and excellent opportunities for personal advancement and professional growth. Company standards require drug testing. Please mail/fax your resume, indicating position of interest, to: **Purdue Pharma L.P., Dept.-SR/NYT, 99-101 Saw Mill River Road, Yonkers, NY 10701; FAX: (914) 966-4390.** Equal Opportunity Employer M/F/D/V.

Purdue Pharma L.P.
Science into Practice

DIRECTOR

Department of Technology Assessment

Help us to Enhance the Future of Health Care.

The American Medical Association has earned national renown as the largest and most influential physician member organization. As we prepare to enter the next millennium, the AMA seeks a knowledgeable technology assessment professional to help us improve medical practices across the country by using science as the foundation for sound care.

In this diversified role, you will direct staff and fiscal resources to track and interpret scientific advances in devices, procedures and drugs; assist in policy and advocacy development; develop and disseminate standards for technology assessment; and implement programs that will provide credible sources on the latest technology.

Qualifications include a minimum of 3 years post-doctoral experience in a related medical or health-science field, professional development in qualitative methodology and evidence-based systematic reviews, and expertise in project management. Excellent analytical/decision-making skills, proven experience with speaking engagements and solid writing abilities (business/grant writing or Internet publications desired), knowledge of publications in peer-reviewed literature, and a Ph.D. with a background in technology assessment or an MD in an appropriate health-science field required. Director supervisory expertise highly desired.

The AMA offers a competitive salary and comprehensive benefits. For immediate consideration, forward resume with salary history to: Carol Sprague, Division of Placement, Dept. CS 178, AMA, 515 N. State St., Chicago, IL 60610. Fax: (312) 464-5871.

E-mail: placement@ama-assn.org See our web site at www.ama-assn.org EOE

American Medical Association

Physicians dedicated to the health of America



THE ASA AND KASHMIR JOHAL AND FAMILY CHAIR Department of Pediatrics, The University of British Columbia

The University of British Columbia and B.C.'s Children's Hospital is seeking an internationally recognized scientist to head the basic and translational research program in Pediatric Oncology. This is a newly created full time academic position and the successful candidate will be the holder of the Asa Kashmir Johal and Family Chair. As such the candidate will be responsible for expanding and fiscally managing an existing Research Program which is an integral part of a collaborative research initiative involving Pediatric Oncology at B.C.'s Children's Hospital, and adult orientated experimental oncology at the B.C. Cancer Research Centre.

B.C.'s Children's Hospital is the only tertiary care Pediatric facility in British Columbia and sees all newly diagnosed cases of childhood cancer in British Columbia. It is a participating member of the Children's Cancer Group, and collaborates with other international childhood cancer organizations. This affords an excellent opportunity for material based biologic research in combination with clinical outcome analysis.

The successful candidate will head an expanding group of research teams focusing on the molecular genetics of childhood cancer. Objectives of the research program include the application of emerging technologies for the identification and characterization of genetic abnormalities, primarily in specific childhood solid and haematological malignancies. The application of these findings to the diagnosis and prognostic classification of childhood cancers will lead to the development of novel and innovative approaches to the treatment of childhood cancer based on the elucidation of genetic defects in these tumours.

The candidate should have internationally recognized expertise in the molecular biology of cancer. They must possess an MD/PhD or Ph.D and have proven team building capabilities. Anticipated start date is January 1, 1998. The successful candidate will be appointed at the rank of Professor with tenure (grant). Salary will be commensurate with qualifications.

UBC hires on the basis of merit and is committed to employment equity. We encourage all qualified persons to apply. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. Applications and curriculum vitae and the names of three referees by **October 31, 1997** to be sent to:



Dr. Judith G. Hall, MD, FRCP(C), FAAP, FCCMG, FABMG
Professor and Head, Department of Pediatrics
UBC and B.C.'s Children's Hospital
Professor, Medical Genetics, UBC
James and Annabelle McCreary Professor
Room #2D15, B.C.'s Children's Hospital
4480 Oak Street, Vancouver, B.C., CANADA V6H 3V4
e-mail: jhall@wpog.childhosp.bc.ca; Fax: (604) 875-2890

Genentech, Inc.

incredible people
extraordinary science

What does your work mean to you? At Genentech, our work represents a commitment to progress; a quest for discovery. What matters to us? Something incredibly simple - bettering human health. Whether experimenting with a next-generation medicine, or producing one of our five marketed products in manufacturing, you'll play a critical part in making our vision a reality. Each day, we make it more real. If you share that passion for life, imagine what we could do with your help. It's incredible, and extraordinary.

Associate Scientist/Scientist - Pharmaceutical R&D

Our Pharmaceutical R&D department, the first to commercialize protein therapeutics in specialized delivery systems, has an opportunity for an Associate Scientist or Scientist. The successful candidate will design and supervise laboratory studies leading to the development of new dosage forms/delivery systems for protein drugs. These studies will include the physical and chemical characterization of proteins with regard to compatibility with pharmaceutical excipients and delivery systems, as well as the assessment of dosage form stability.

To qualify, you will hold a PhD or equivalent in Physical Chemistry, Biochemistry or Pharmaceutical Chemistry with heavy emphasis on physical/analytical concepts. Experience with proteins and a fundamental knowledge of pharmaceuticals, analytical biochemistry techniques (spectroscopy, chromatography) are essential as is the ability to interact/collaborate in a multidisciplinary group setting. At least 1-3 years of postdoctoral experience in protein physical biochemistry or industrial experience in protein formulation and strong communication skills are highly desirable. Job Code SCI0843

Sr. Scientist/Scientist - Whole Animal Physiologist

The Endocrinology and Metabolism department is currently seeking a Whole Animal Physiologist to develop a team oriented program in which protein-based therapeutics are evaluated in relevant animal models. The successful candidate will have a PhD and/or MD and 2+ years of postdoctoral experience in a relevant area of whole animal physiology. We are particularly interested in applicants with experience in one or more aspects of statural growth, bone metabolism, organ development, regeneration, feeding behavior and fuel homeostasis. Job Code SCI0782

Our progressive benefits package includes full medical/dental/vision, 3 weeks vacation, a sabbatical program, a stock purchase plan and health club membership. Send your resume, indicating Job Code, to: Genentech, Inc., Human Resources, P.O. Box 1950, South San Francisco, CA 94083-1950. Please use plain typefaces, we cannot accept faxes. You may e-mail your resume indicating Job Code to jobs@gene.com (ASCII files only with a maximum line width of 76 characters). Genentech is an Equal Opportunity Employer. We value the contributions of our diverse workforce.

www.gene.com

REACH A NEW LEVEL



OF RESEARCH FREEDOM AT



PARKE-DAVIS

At Parke-Davis Pharmaceutical Research Division of Warner-Lambert Company, inspired science and a strategy of innovation has made us a leader in the pharmaceutical industry. Currently, we are seeking two Postdoctoral Fellows to join our Molecular Biology Department and one Postdoctoral fellow to join our Toxicology department in Ann Arbor, MI.

POSTDOCTORAL RESEARCH FELLOWSHIP

Characterization of apoptosis-associated gene/Gene knockout & Transgenic mice

Our interest in a gene associated with apoptosis has created a strong post-doctoral position to characterize gene function through gene knockout. Receive excellent training while you work in a stimulating research environment. The successful candidate will possess a Ph.D. in Molecular Biology/Biochemistry or related field, with a strong molecular biology background. Experience with gene knockout/transgenic mice is preferred, but is not required. **JOB CODE: CJM-974155**

POSTDOCTORAL RESEARCH FELLOWSHIP

cAMP metabolism in immune response

We have a post-doctoral position for a Molecular Biologist/Biochemist to investigate the role of cAMP-dependent phosphodiesterases in the immune system. The suc-

cessful candidate will have a Ph.D. in Molecular Biology, Biochemistry or related field, and experience in cloning, transient and stable eukaryotic transfection, yeast two hybrid screening and general hybridization techniques. Expertise in intracellular signaling mechanisms and protein-interaction analysis is preferred, but is not required. **JOB CODE: CJM-974154**

POSTDOCTORAL POSITION

As part of our research team, you'll investigate the effects of a novel test substance on sperm motility and morphology, and epididymal function in male rats. Techniques such as gel electrophoresis, intraluminal flow/pressure, primary epididymal cell cultures, molecular biology and biochemical assays will be applied to various species. A Ph.D. in Toxicology, Pharmacology or related science is required. Experience with the above techniques and familiarity with male reproductive toxicology or physiology are preferred. **JOB CODE: RJB-974144**

If you're highly motivated in scientific research, mail, fax or e-mail your CV*, a brief summary of your research accomplishments and 3 references, indicating the Job Code of interest, to: **Parke-Davis Pharmaceutical Research, Human Resources Department, 2800 Plymouth Road, Ann Arbor, MI 48105. Fax: (313) 998-3394. E-mail: resume@aa.wl.com**

*Submit CV on laser-quality white paper, with legible 10 point or larger type, and avoid bold-face, italics, borders, etc.

Equal opportunity in action. Smoke-free work environment.

RESEARCH SCIENTIST: TOXICOLOGIST/CHEMIST

Brown & Williamson Tobacco Corporation, an international multibillion dollar consumer products company, has an immediate opening for its Macon, GA facility within the Research & Development Department.

The candidate we seek must have the capacity to make meaningful contributions in a work environment characterized as fast-paced and constantly changing. The position requires a high degree of organization/planning; the ability to review and decipher large volumes of tobacco related literature and make responses that are scientifically defensible.

The successful candidate, for employment, will have demonstrated their capabilities and orientation for success through their academic, work and personal histories, and evaluation processes.

Candidates must have experience and demonstrated proficiency in the following:

- A minimum of 5 years prior experience required.
- Computer literacy with databases, spread sheets, and word processing is required.
- Prior experience in a Toxicology contract lab preferred; and experience in health effects consulting firm, regulatory agency or industry preferred.
- A Ph.D. in Toxicology or other health effects related field *required*.
- Good verbal and written communication; math skills *required*.

Some job responsibilities would include but not be limited to the following:

- Develop and maintain technical expertise and awareness related to major smoking and health issues associated with environmental tobacco smoke (ETS) and smoke constituents.
- Provide analysis of research findings concerning investigator's interpretations, methodologies, and overall relevance to broader smoking and health issues.
- Monitor emerging ETS and smoking constituent research findings; develop an immediate response posture.
- Collaborate with other scientists to obtain technical input outside their area of expertise.
- Provide technical support within their field of expertise to other projects and activities within the scientific & regulatory affairs department.

We offer a highly competitive compensation with excellent benefits.

Please fax or mail your resume along with recommendations and indicators of job criteria above to: T.E. Brown, Brown & Williamson Tobacco Corp., 2600 Weaver Road, Macon, GA 31298, FAX: 912/755-4033.

An Equal Oppty. Employer M/F/V/ADA



TYPE 2 DIABETES MELLITUS RESEARCH PROGRAM SCIENTIFIC PROGRAM MANAGER NIH RESEARCH ADMINISTRATION

The National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) is seeking applicants for the position: **Director for the Type 2 Diabetes Mellitus Research Program**. This position is located in Bethesda, Maryland, and is a permanent full-time position for a Scientific Program Manager (GS-13 or -14) with a salary range of \$54,529 to \$88,396 per annum commensurate with qualifications. Physicians may be eligible for Physician Comparability Allowance ranging from \$5,000 to \$20,000 per year.

The Director for the Type 2 Diabetes Mellitus Research Program is responsible for planning, developing, managing and evaluating a multimillion dollar program of grant and contracts which supports high quality basic and clinical studies throughout the world. This individual will be responsible for identify research priorities, organizing scientific meetings and closely interacting with leading researchers in the field. This grant portfolio focuses on research related to type 2 diabetes mellitus including insulin resistance, glucose metabolism, and the mechanism of insulin action. Applicant scientists (Ph.D., M.D., or equivalent) should have a track record of accomplishments in biomedical research related to diabetes and excellent interpersonal and written communication skills.

A position description and qualifications for the position are available from Ms. Virginia Kreamer in the Office of Human Resource Management, NIDDK. **The deadline for applications is October 1, 1997.** Submit a CV, bibliography, application background survey (optional) and supplemental qualifications statement to: **Mr. Ronald Sleyo, Office of Human Resource Management, NIDDK, NIH, Building 31, Room 9A34, 31 Center Drive MSC 2560, Bethesda, MD 20892-2560; Email: sleyo@niddk.nih.gov.** Applicants may also apply to this position via the Internet. The full text vacancy announcement and on-line application for this position is available at:

<http://ohrm.cc.nih.gov/nihhrm/ANNOUNCEMENT/ON-LINE.html>

U.S. Citizenship is Required. NIH is an Equal Opportunity Employer. Minority and Women Applicants are Encouraged to Apply.

CHAIR OF BIOCHEMISTRY AND MOLECULAR BIOLOGY

Department of Biochemistry and Molecular Biology

The University, recognised internationally for excellence in teaching and research, is located centrally in Melbourne, a vibrant centre of Australian intellectual and cultural life.

The Position: This Chair is situated in the Department of Biochemistry and Molecular Biology in the School of Medicine, within the Faculty of Medicine, Dentistry and Health Sciences. The new Professor will be expected to provide leadership in teaching and research relevant to the field of Biochemistry and Molecular Biology.

The Person: Applicants should have achieved distinction in teaching and international recognition for their research. Of particular interest to the University would be a person with major research interests in the broad area of biomedical applications of molecular biology. Medical or non medical graduates may apply.

The Benefits: The remuneration package is approximately AUD103,000 including clinical loading and superannuation. Increases will flow from the Enterprise Agreement 1996. The University also allows relevant outside work for thirteen days in each quarter of each calendar year.

Duration: The Chair is offered on a continuing basis subject to satisfactory performance. This appointment will be available from 1 July 1998.

Contact: Academic enquiries to Professor Gordon Clunie, Dean of the Faculty of Medicine, Dentistry and Health Sciences, telephone: 61 (3) 9344 5894; secure facsimile: 61 (3) 9347 7854; email: GORDON_CLUNIE.MEDICINE@MUWAYF.UNIMELB.EDU.AU

Further information about the position, including details of the application procedure, conditions of outside work, superannuation, travel and removal expenses, housing assistance and conditions of appointment, is available from the Registrar. Information is also available on the Internet: <http://www.unimelb.edu.au/ExecServ/Seniorapp/index.htm>. Or contact Ms Rosemary Senior, telephone: 61 (3) 9344 5003; secure facsimile: 61 (3) 9344 6897; email: r.senior@exec_serv.unimelb.edu.au

Application To: The Registrar, The University of Melbourne, Parkville, Victoria 3052, Australia (marked "Personal and Confidential"). Secure facsimile: 61 (3) 9344 6897 by 10 October 1997.

The Council reserves to itself the right to make no appointment or to fill the Chair by invitation at any stage.



MELBOURNE

TMPV99637

GLOBAL CAREER OPPORTUNITIES



PRINCE HENRY'S INSTITUTE
OF MEDICAL RESEARCH

Director

Prince Henry's Institute of Medical Research is an independent medical research institute of international standing, affiliated with Monash University and associated with the Monash Medical Centre at Clayton, Melbourne. The Institute is one of the largest independent biomedical research institutes funded by competitive grants from the National Health and Medical Research Council of Australia.

The Institute intends to build on its strong reputation for research in basic and clinical endocrinology and to consolidate its current strengths in the component groups in the Institute which include Neuroendocrinology, Pharmacology, Molecular Endocrinology, Reproductive Endocrinology and Biology, Uterine Biology, Reproductive and Menopausal Medicine and Breast Cancer. The Institute is a member of the Victorian Breast Cancer Research Consortium and it also conducts a Reproductive Medicine Clinic and associated clinical services.

The Institute is seeking to appoint a successor to Professor Henry Burger AO FAA, with effect from 1 January, 1999.

The Director is the chief executive officer and scientific leader of the Institute and is responsible to the Board of the Institute. With the approval of the University, the Director may be appointed as an Honorary Professor. If appropriately clinically qualified, he or she will be eligible for appointment as a Director or Senior Specialist in one of the clinical units at the Monash Medical Centre Campus of the Southern Health Care Network.

The appointment offers an opportunity for an outstanding individual with research leadership and management skills to head one of Australia's leading medical research institutes located within a major teaching hospital and research campus.

An attractive remuneration package commensurate with skills and experience of the successful candidate will be negotiated on the basis of a five year contract of appointment with a review by the end of the fourth year.

The Chairman of the Board welcomes enquiries about the position or expressions of interest from potential applicants. An information package can be forwarded on request. Written applications, including a full curriculum vitae and the names and addresses of three professional referees, should be marked 'Private and Confidential', and forwarded no later than 30 September, 1997 to:

Mr Geoffrey Crawford-Fish,
Chairman of the Board,
Prince Henry's Institute of Medical Research,
PO Box 5152, Clayton Victoria 3168, Australia
Confidential fax: +613 98366333
Website: <http://www.mncc.monash.edu.au/phimr>

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SCIENCE
www.sciencemag.org

Head, Bioinformatics Unit, Center for Genomics Research at Karolinska Institute

In May of 1997 the most extensive university-industry collaboration in Sweden was announced. At that time, Pharmacia & Upjohn agreed to support a new Center for Genomics Research at Karolinska Institute in Stockholm. This new Center has Departmental status at Karolinska Institute and has secured existing laboratory space from September of 1997. In addition to the Center itself, collaborations with leading preclinical as well as clinical research groups throughout the Karolinska Institute are currently being established.

- The mandate of the Bioinformatics Unit is to constitute a hub in genomics efforts at Karolinska Institute as well as at Pharmacia & Upjohn, drawing on competences and resources at both entities. The work at this Unit will also be of frontline exploratory nature.
- The present position is likely associated with employment at Pharmacia & Upjohn with leave of absence to take up adjunct Professorship at Karolinska Institute. It is expected that the successful candidate is a leading academic scientist who ideally has acquired a relevant exposure to the realities of the pharmaceutical industry.

Letters of interest and Curriculum Vitae may be directed to :

Dr. Claes Wahlestedt, Director
Center for Genomics Research
Karolinska Institute
SE-171 7 7 Stockholm, Sweden
Fax: + 46 8 32 39 50
E-mail: claes.wahlestedt@admin.ki.se



Pharmacia
&Upjohn



GENETIC THERAPY, INC.

Genetic Therapy, Inc., is a leader in the development of human gene therapy products for the treatment of genetic and acquired diseases. The Company's product development programs include: cancers, hemophilia and cystic fibrosis.



The Bioprocessing Department has the following openings:

Group Leader - Process Development Group (Job Code: 206-022-8)

This position is responsible for developing mammalian cell culture systems in bioreactors from bench to pilot scale for serum-free viral vector production. This includes retroviral and adenoviral vectors, and cell based products. A successful candidate will have a Ph.D. in Biochemical Engineering, with experience in mammalian cell culture in large-scale bioreactors and a minimum of 5 years experience in process development in the biotechnology industry; or equivalent. Previous viral vector-mediated gene therapy experience with GMP is highly desired.

Group Leader - Scale-Up Group (Job Code: 207-022-8)

Candidate will be responsible for developing downstream processes of viral vectors, including concentration, ultrafiltration, chromatographic purification, formulation and lyophilization. A successful candidate will have a Ph.D. in Biochemical Engineering, Biochemistry or related field with a minimum of 5 years experience in the biotechnology industry; or equivalent. Familiarity with scale-up of viral vector purification technologies is necessary. Cell culture and GMP experience is desired.

Bioprocessing Engineer II - Scale-Up Group (Job Code: 169-022-8)

Individual will develop downstream processes for retroviral and adenoviral vector purification and formulation. Candidate must be familiar with large-scale column chromatographic purification technologies and have GMP experience. B.S. in an engineering discipline and 4 years of relevant experience; or equivalent. Mammalian cell culture experience is desired.

GTI, a Novartis company, offers a stimulating and challenging environment in a rapidly growing company, with competitive salaries and benefits. Please specify job code when applying. Fax or send resume to:

Genetic Therapy, Inc.

938 Clopper Road
Gaithersburg, MD 20878
Fax: (301) 948-0503
Email: gti.jobs@pharma.novartis.com

 **NOVARTIS**

EOE

CITY OF HOPE NATIONAL MEDICAL CENTER

Duarte, California

City of Hope National Medical Center and Beckman Research Institute are located on a beautiful 100-acre campus in Duarte, California.

CELL AND TUMOR BIOLOGY

Postdoc Fellow/Research Associate

Requires biochemical analysis of nucleases or other proteins experience. Will perform protein structural/functional analytical experiments in relation to tumorigenesis with the following techniques: protein overexpression, purification, and characterization; kinetic analysis of nucleases; southern, northern and western analysis; gene cloning, sequencing and site-directed mutagenesis. Ph.D. in Biochemistry/Molecular Biology or equivalent experience. REF: HR/CTBBS

HEMATOLOGY/BMT

Postdoc Fellows (2 positions)
Research focuses upon viral vector mediated gene transfer for treatment of AIDS and for genetic modification of antigen

presenting cells to generate immune responses against cancer. Experience with cellular immunology, HIV biology, hematopoieses, and virology are desirable. REF: HR/KKW

BIOLOGY

Postdoc Fellow/Research Associate

Lab of Dr. Gerd Pfeifer. Experience in molecular biology techniques (PCR, DNA sequencing) required. Working in the field of DNA repair and mutagenesis in mammalian cells. REF: HR/BIO/GF

Mail/Fax/E-mail your resume to: City of Hope, (include ref code), 1500 E. Duarte Rd., Duarte, CA 91010. Fax (818) 301-8448. E-mail: rkennedy@smtpink.co.hope. Equal Opportunity Employer. Visit our website at www.cityofhope.org



City of Hope

DRUG DISCOVERY OPPORTUNITY

Oncogene Science, Inc., is an integrated drug discovery company with a mission to discover and develop novel pharmaceutical products. We have combined sophisticated molecular biology with industry pioneering robotics to become the leader in the field of small molecule drug discovery by automated high-throughput screening.

This Sr. Research Scientist position is available in Drug Discovery Research. This scientist will be a key member of a team that will design multiple assays for the identification and development of novel drugs. As part of a multi-disciplinary drug discovery effort, you will interact with different teams within the Company; directly supervise 2-3 research associates; and communicate with external collaborators (i.e. large pharmaceutical companies, leading academic and industrial research groups). This position requires a Ph.D. with 2-5 years' post-doctoral training. Broad training in molecular biology, biochemistry, and cell biology required. Additional requirements include writing and oral presentation skills and any experience in skin or hair growth field a plus.

Oncogene Science offers a superb benefits package and opportunities for career development in a highly participative environment. Qualified candidates may send resumes to **Director, Human Resources, Oncogene Science, Inc., 106 Charles Lindbergh Blvd., Uniondale, NY 11553-3649; Fax: (516) 222-0114.** Equal Opportunity Employer M/F/D/V.

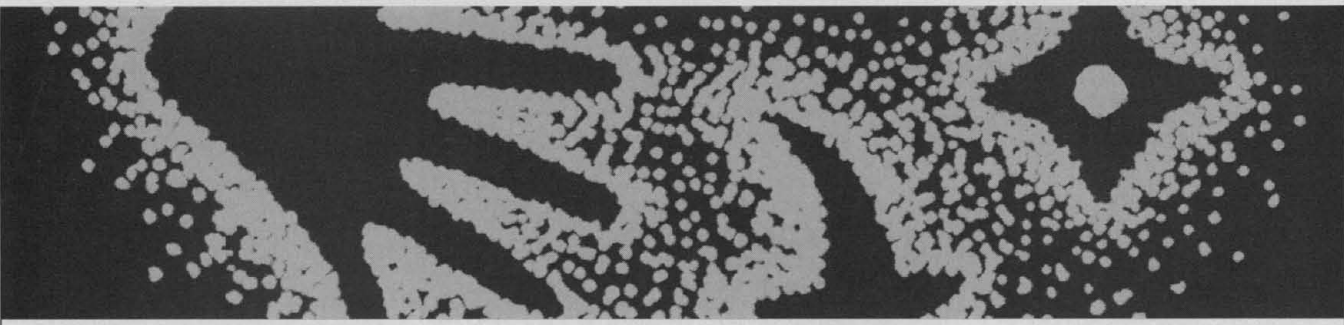
Visit our Website at: www.oncogene.com

Oncogene Science




FACULTY POSITION

The Departments of Urology and Pathology and the Jonsson Comprehensive Cancer Center at the UCLA School of Medicine wish to recruit a mid-level scientist to head the prostate cancer research program. Potential applicants should have an established investigative program directly relevant to prostate cancer. Strong leadership skills are also required to coordinate a multidisciplinary, multilaboratory research effort in prostate cancer. Substantial support is available for lab set up and maintenance of the prostate cancer program. Interested persons should forward their CV and three letters of recommendation to **Judith Mayfield, Search Committee Coordinator, Jonsson Comprehensive Cancer Center, UCLA, 8-684 Factor Building, Box 951781, Los Angeles, CA 90095-1781.** UCLA is an Equal Opportunity/Affirmative Action Employer.



Pharmacia & Upjohn is among the world's largest pharmaceutical companies. We are involved in areas such as Oncology and Infectious, Metabolic, Inflammatory and Central Nervous System Diseases to help people live longer and fuller lives. If you would like an opportunity to make a difference with Pharmacia & Upjohn, contact us.

Cardiologist

Among the main tasks of the Department of Pharmacology are pharmacological experimental activities *in vitro* and *in vivo* in the fields of endocrine and metabolic diseases. Our current staff of 85 will expand coherently with our future research tasks. The department is currently situated both in Stockholm and Uppsala but we will assemble in well equipped facilities in our new Research Campus in Stockholm within 4–5 years.

We are now looking to appoint a pharmacologist/cardiologist to actively participate in the progress of our research.

Job description

The successful candidate will mainly work in the areas of atherosclerosis, antithrombosis and heart failure. Among the duties will be installation of experimental systems for monitoring of heart functions. Participation in various project groups as pharmacology representative will be among the responsibilities.

Qualification requirements

PhD degree, preferably in cardiology, especially in the field(s) of atherosclerosis, coagulation principles or heart failure. Confirmed qualifications in ECG, electrophysiology or Langendorff preparations are wellcome as well as prior professional experience from drug R&D.

For further information please contact Per-Göran Gillberg, Head of Pharmacology.
Phone +46 18 16 40 60, e-mail: per-goran.gillberg@eu.pnu.com

Please apply with a covering letter and current cv to
Lotta Hansing, Pharmacia & Upjohn AB, S-112 87 Stockholm,
quoting ref. 97.27, before August 24, 1997.



**Pharmacia
& Upjohn**

POSITIONS OPEN

FACULTY POSITION CANCER DRUG DESIGN: MEDICINAL CHEMISTRY AND PHARMACOLOGY

The School of Pharmacy and USC Norris Comprehensive Cancer Center are seeking investigators with a preferred background in organic/medicinal chemistry or biochemistry for a tenure-track Assistant/Associate Professor position. Outstanding applicants conducting research in the synthesis, design, or mechanism-based development of anticancer drugs will be given the highest consideration. Teaching at the graduate and professional levels in the School of Pharmacy is required. Candidates should send the names of three references, a curriculum vitae, and a brief summary of research accomplishments and future goals to: Vincent H. L. Lee, Ph.D., Department of Pharmaceutical Sciences, School of Pharmacy, University of Southern California, 1985 Zonal Avenue, Los Angeles, CA 90033. Evaluation of applications will begin on September 30, 1997, and continue until the position is filled. USC is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSORS (2) IN EVOLUTIONARY BIOLOGY/ECOLOGY

The Department of Biological Science at Florida State University invites applications for two positions at the Assistant Professor level. We are particularly interested in candidates in evolutionary ecology and/or systematics, but would consider any excellent candidate who will complement our current faculty in ecology, conservation biology, and evolution. Teaching responsibilities will include an undergraduate course in evolution and participation in the graduate program. Applicants should send a curriculum vitae, a statement of teaching interests, a description of research interests and goals, and relevant reprints. Applicants should also provide the names and telephone numbers of three references and arrange to have letters of recommendation sent to the search committee. All application materials must be received no later than September 19, 1997. Applications should be submitted to: Ecology and Evolutionary Biology Search Committee, Department of Biological Science, Florida State University, Tallahassee, FL 32306-1100. E-mail: search3@bio.fsu.edu; website: <http://www.fsu.edu/~biology>. Florida State University is an Affirmative Action/Access/Equal Opportunity Employer.

ASSISTANT PROFESSOR IN PROTEIN NMR SPECTROSCOPY THE UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER

The Department of Biochemistry of the University of Texas Southwestern Medical Center invites applications for a tenure-track Assistant Professor position in protein NMR spectroscopy. U.T. Southwestern offers a stimulating environment for interdisciplinary research in biochemistry, molecular and structural biology. Applicants should have a Ph.D. and/or M.D. degree and demonstrated experience in multidimensional NMR spectroscopy. The successful applicant will be expected to develop an independent research program in the fields of protein structure and/or protein folding, and to participate in graduate education. Applications including a curriculum vitae, a brief statement of research plans, and the names of three references should be submitted by October 1, 1997, to: Chair of the NMR Search Committee, Department of Biochemistry, U.T. Southwestern Medical Center, 5323 Harry Hines Boulevard, Dallas, TX 75235-9038. The University of Texas Southwestern Medical Center is an Affirmative Action/Equal Opportunity Employer. Women and minority candidates are encouraged to apply.

SENIOR STAFF ASSOCIATE positions available to conduct research in 3-D echocardiography. Applicants must have B.S. or equivalent and eight years of experience in echocardiography. Positions require expertise in performing and analyzing 3-D echocardiography and echodoppler examinations, and expertise in elementary statistics. Send curriculum vitae to: Donald L. King, M.D., Division of Cardiology, Columbia University, PH 3C-342, 630 West 168th Street, New York, NY 10032. We take Affirmative Action toward Equal Opportunity.

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR NEUROBIOLOGY/SIGNAL TRANSDUCTION University of Florida College of Medicine

The Department of Pharmacology and Therapeutics, in conjunction with the University of Florida Brain Institute and its program in Signal Transduction and Drug Discovery, invites applications for a tenure-track faculty position for individuals having a Ph.D. and/or M.D. degree. The position is in part supported by the Lucille P. Markey Charitable Trust. The successful candidate will be expected to develop an independent and interactive research program and contribute to the teaching of professional and graduate students. Individuals with demonstrated productivity using molecular and cellular approaches to study central nervous system signal transduction or related areas are encouraged to apply. The position offers a competitive salary, excellent research facilities, and start-up package. Applicants should send their curriculum vitae, a brief description of research interests, and three letters of recommendation to: Chair, Search Committee for the Markey Faculty Scholars Program, Department of Pharmacology, Box 100267, University of Florida, Gainesville, FL 32610-0267. Application deadline is September 30, 1997, with a start date on or after January 1, 1998. The University of Florida is an Equal Opportunity Employer, and minorities and women are especially encouraged to apply.

RESEARCH ASSISTANT PROFESSOR position in neurobiology available at the University of Alaska Anchorage, beginning October 1, 1997. The faculty appointment will be in the Biomedical Program, which is affiliated with the University of Washington Medical School (WAMI Program). The appointment will be for two years, subject to funding. The selected candidate will join a laboratory investigating the development of nicotinic acetylcholine receptor function in muscle. Applicants must have postdoctoral experience in ion channel physiology and must be skilled at patch clamping oocyte injection, site-directed mutagenesis, and *in vitro* RNA synthesis. Experience in studying phosphorylation of ion channels is desirable. Teaching responsibilities involve selected lectures in a one-semester cell physiology course for first-year medical students. For more information contact Rick Kullberg at Telephone: 907-786-1239 or e-mail: afw@uaa.alaska.edu. Submit letter of application, résumé, and three letters of reference. Please note PCN number 730260 on application. Send to: University of Alaska Anchorage, Human Resource Services, Administration Building, Suite 245, 3211 Providence Drive, Anchorage, AK 99501-8136. Telephone: 907-786-4608; TTY: 907-786-1420; FAX: 907-786-4727. UAA is an Affirmative Action/Equal Opportunity Employer and Educational Institution. Candidates must be eligible for employment under Immigration and Reform Control Act as amended 1990.

ASSISTANT PROFESSORSHIPS IN INORGANIC, ORGANIC, AND PHYSICAL CHEMISTRY

Harvard University
Department of Chemistry and Chemical Biology

Applicants are invited to apply for Assistant Professorships in inorganic, organic, and physical chemistry. Applicants should arrange to have three letters of recommendation sent independently and should provide a curriculum vitae, a list of publications, and outlines of two future research projects. Applications and supporting materials should be sent no later than 1 November 1997 to: Professor David A. Evans, Chairman, Department of Chemistry and Chemical Biology, Harvard University, 12 Oxford Street, Cambridge, MA 02138-2902. Harvard University is an Affirmative Action, Equal Opportunity Employer and welcomes applications from women and minority group members.

ADMINISTRATOR for scientific society in Philadelphia, Pennsylvania, to advance programs and provide staff support to committees. Candidate must have minimum of seven years of work experience in administration (preferably nonprofit association management) or biomedical research (preferably cancer research). Position requires excellent written and oral communication skills, versatility, accuracy, and computer literacy. Familiarity with needs and practices of scientific community valuable. Graduate degree required. Send covering letter, résumé, writing sample, and desired salary to: P.O. Box 40138, Philadelphia, PA 19106.

POSITIONS OPEN

COGNITIVE NEUROSCIENTIST UNIVERSITY OF WASHINGTON

Applications are invited for a joint position of **ASSISTANT** or **ASSOCIATE PROFESSOR** in the Department of Physiology and Biophysics and Core Staff of the Regional Primate Research Center. Candidates should have postdoctoral experience with neuroscience research involving primates and be working in the general field of cognitive neuroscience. Areas of research interest include mechanisms of learning and memory, perception, emotion, and higher cognitive functions. We seek a candidate who can establish a strong neuroscience research program involving primates, and whose interests would complement those of current faculty.

Applications and nominations should be submitted before September 30, 1997. Send curriculum vitae, several representative reprints, the names of four professional references, and a concise statement of research interests and goals to: Dr. Eberhard Fetz, Chair, Search Committee for Cognitive Neuroscientist, Department of Physiology and Biophysics, University of Washington, Seattle, WA 98195-7290.

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

TENURE-TRACK FACULTY POSITIONS DEPARTMENT OF MICROBIOLOGY AND IMMUNOLOGY SUNY Health Science Center at Syracuse

The Department of Microbiology and Immunology at the SUNY Health Science Center at Syracuse invites applications for two tenure-track, full-time positions at the Assistant Professor level. Candidates must have potential to establish an independent research program using cellular and/or molecular approaches in the areas of virology or immunology. Competitive applicants will have a Ph.D. degree or equivalent, postdoctoral experience, and a record of innovative research productivity. Salary, space, and start-up funds are competitive with national levels. More information about our program can be obtained from our website: <http://micro.ec.hscsy.edu/microb/>. Applications including a statement of research interests and goals, a curriculum vitae, and three letters of reference should be sent to: Steven M. Taffet, Ph.D., Chair of the Search Committee, Department of Microbiology and Immunology, SUNY Health Science Center at Syracuse, 750 East Adams Avenue, Syracuse, NY 13210. The deadline for applications is September 1, 1997.

The SUNY Health Science Center at Syracuse is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR NEUROGENETICS DEPARTMENT OF NEUROBIOLOGY

The Department of Neurobiology at the University of Alabama at Birmingham (UAB), School of Medicine invites applications for a tenure-track position at the Assistant Professor level. The Department is seeking an outstanding individual who uses contemporary molecular genetic approaches to evaluate the development and/or function of the nervous system. Candidates utilizing experimental systems such as *D. melanogaster*, *C. elegans*, or *D. rerio* are encouraged to apply. Attractive facilities and start-up package are available. The Department currently has a strong base of molecular and cellular neurobiologists studying problems of receptor and ion channel function and signal transduction. Send curriculum vitae and statement of research plans and have three letters of recommendation sent to: Michael J. Friedlander, Ph.D., Professor and Chair, Department of Neurobiology, 1719 6th Avenue South, CIRC 516, University of Alabama at Birmingham, Birmingham, AL 35294-0021 by September 10, 1997. UAB is an Affirmative Action/Equal Opportunity Employer.

RESEARCH ASSOCIATE/RESEARCH INSTRUCTOR position available immediately to study smooth muscle and enteric neural physiology/pathophysiology. Experience in signal transduction, second messengers, biochemical measurements, receptor function, immunohistochemistry, molecular biology, and *in vitro* studies on muscle strips is desirable. Send curriculum vitae and names of two references to: Sushil K. Sarna, Ph.D., Department of Surgery, Medical College of Wisconsin, 9200 West Wisconsin Avenue, Milwaukee, WI 53226. FAX: 414-454-0152.



NATIONAL UNIVERSITY OF SINGAPORE

DEPARTMENT OF BIOCHEMISTRY

Applications are invited for teaching appointments in the Department of Biochemistry.

Candidates should have either a Ph.D. degree or an approved basic medical degree with a recognised higher academic/professional qualification. Preference will be given to candidates with teaching and research experience. A proven track record of high calibre, self-directed research in (a) regulation of gene expression; genetic forms of treatment for human diseases; and (b) physical and structural biochemistry, enzymology, bioenergetics, and intermediary metabolism will be advantageous.

The Department of Biochemistry in the National University of Singapore (NUS) was established 70 years ago. The Department has teaching commitments to medical, dental, and science students and has an active postgraduate research programme. *Staff are vigorously developing an already strong reputation in research on venoms and toxins, neurobiology, gene cloning and expression, therapeutic gene transfer, ion channels, liposomes, ubiquitination, protein purification, and sequencing and bacterial pathogens.* The Department has collaborative links with research institutes within NUS, with government departments and private industries, as well as with research groups overseas. Staff members also hold adjunct/joint appointments in the Bioscience Centre, Bioprocessing Technology Centre, Institute of Molecular Agrobiolgy, National University Medical Institutes, and the University of Melbourne. The Department has basic and specialised facilities for research in biochemistry and molecular and cell biology (phosphoimager, DNA sequencer, fluorescence spectrophotometers, capillary gel electrophoresis, thermal cyclers, HPLC and FPLC systems).

The successful candidate/s should have a strong background in either physical biochemistry, metabolism, or immunology and is expected to make an immediate contribution to undergraduate teaching or medical, dental, and science students.

Gross annual emoluments range as follows:

Lecturer	S\$58,840 - 74,800
Senior Lecturer	S\$68,410 - 144,350
Associate Professor	S\$128,050 - 177,750
(US\$1.00 = S\$1.43 approximately)	

In addition, a 13th month Annual Allowance (of one month's salary) and an Annual Variable Component (of normally 2 months' salary) may be payable at year end, under the flexible wage system, to staff on normal contracts. The commencing salary will depend on the candidate's qualifications, experience, and the level of appointment offered.

In addition, appointees who possess an approved basic medical degree and a recognised higher academic/professional qualification may opt to retain consultation fees under the Consultation/Outside Work Scheme, or to receive a Fixed Allowance, the annual rates for which are as follows:

Lecturer	S\$6,000/9,000
Senior Lecturer	S\$15,000
Associate Professor	S\$21,000

Leave and medical benefits will be provided. Depending on the type of contract offered, other benefits may include: provident fund benefits or an end-of-contract gratuity, a settling-in allowance, subsidised housing, education allowance for up to three children subject to a maximum of S\$16,425 per annum per child, passage assistance, and baggage allowance for the transportation of personal effects to Singapore.

All academic staff will be given a networked personal computer with access to a Cray supercomputer, UNIX hosts, departmental laser printers, a wide spectrum of software, on-line library catalogue, CD-ROM databases, Video-on-Demand, Intv and Internet.

Application forms and further information may be obtained from:

The Director	The Director
Personnel Department	North America Office
National University of Singapore	National University of Singapore
10 Kent Ridge Crescent	55 East 59th Street
Singapore 119260	New York, NY 10022, USA
Fax: +65 778 3948	Tel: +212 751 0331

Email: perlmmj@nus.edu.sg

Web Site: <http://www.nus.sg/NUSinfo/Appoint/APPL1.HTM>

Only shortlisted candidates will be notified.

POSITIONS OPEN



Xenometrix, Inc. develops assays that provide mechanistic information for lead optimization in the drug discovery and development process.

NUCLEIC ACID BIOCHEMIST

We are looking for a creative, energetic individual at the Ph.D. level who has expertise in state-of-the-art nucleic acid detection technologies (hybridization, RNA chemistry) to lead the development of novel assays to quantify gene activation profiles. The ideal candidate must have a minimum one year of industrial, hands-on experience in measuring gene products. A proven record of cellular and molecular biology as well as strong verbal and written communication and organizational skills will be required to work effectively with multidisciplinary teams.

MOLECULAR PHARMACOLOGIST

We are looking for a creative, energetic molecular pharmacologist at the Ph.D. level who has had at least one year of industrial experience in screening for lead candidates in drug development. This individual must have a proven record in the regulation of gene activity and pharmaceutical research. Excellent communication and organizational skills to lead multidisciplinary teams a must.

Xenometrix is a dynamic company, situated in the heart of the Rocky Mountains, that offers a competitive compensation package with benefits including a stock option plan. Send detailed curriculum vitae stating position to: **Xenometrix, Inc., 2425 North 55th Street, Box PGRD, Boulder CO 80301-5700. E-mail: netaadmin@xeno.com.**

We are seeking an outstanding **MOLECULAR NEUROBIOLOGIST** to investigate the molecular mechanisms of anesthesia as an **ASSISTANT/ASSOCIATE PROFESSOR**. Expertise in the study of ion channel and receptor structure by molecular biological techniques and structure-function correlations by patch clamp and/or oocyte electrophysiology is preferred. Previous postdoctoral research experience with a strong background in molecular biology and/or neurobiology and the ability to maintain a funded research program are required. Applicants should send a curriculum vitae and three references to: **H. C. Hemmings, M.D., Ph.D., Box 50, LC-203, Department of Anesthesiology, The New York Hospital-Cornell Medical Center, 525 East 68th Street, New York, NY 10021.**

FACULTY POSITIONS

The Molecular Cardiology Program at Columbia University College of Physicians and Surgeons invites applications for two tenure-track positions at the **ASSISTANT PROFESSOR** level. We are seeking applicants working in any field of molecular and cellular biology with particular interests in development and cell cycle regulation. Prior experience in cardiovascular systems is not required. Faculty appointments will be jointly in the Departments of Medicine and Pharmacology. Send curriculum vitae, reprints of publications, a statement of research plans, and three letters of recommendation to: **Dr. Andrew R. Marks, Director of Molecular Cardiology, Columbia University, P&S 9-401, 630 West 168th Street, New York, NY 10032. Columbia University is an Affirmative Action/Equal Opportunity Employer.**

RESEARCH SCIENTIST

Envirogen, Inc., an environmental biotechnology company specializing in innovative solutions for treating hazardous waste, has an opening for a Ph.D. research scientist for the Technology Development, Bioremediation Group which is developing *in situ* biotreatment technologies. The position requires a highly motivated individual to conduct hands-on laboratory work in the areas of anaerobic and soil microbiology, molecular biology, bacterial transport, and bacterial degradation of hazardous wastes. Additional requirements include excellent interpersonal communication, writing, and management skills; proposal and publication record. Industrial experience preferred. Send curriculum vitae and references by e-mail: **employment@envirogen.com. Equal Opportunity Employer, Minorities/Females/Handicapped/Veterans.**

POSITIONS OPEN

ARENA PHARMACEUTICALS

Arena is an early-stage biotechnology company situated in San Diego focused on the development of novel therapeutics at G protein-coupled and tyrosine kinase receptors. The company presently has positions open in the areas of molecular biology and biochemical screening.

SCIENTISTS—MOLECULAR BIOLOGY

Successful candidate will have a Ph.D. and a minimum of three years of postdoctoral experience and familiarity with up-to-date molecular techniques. Previous industrial experience and familiarity with G protein-coupled and/or tyrosine kinase receptors an advantage. Good communication and interpersonal skills a must.

BIOCHEMICAL SCREENING

Successful candidate will have a minimum of five years of experience and proven track record in biochemical assay development and chemical library screening. Previous experience with receptor membrane assays and whole cell reporter assays an advantage.

Arena Pharmaceuticals, P.O. Box 1782, Solana Beach, CA 92075. FAX: 619-793-0728.

ASSISTANT RESEARCHER, TENURE-TRACK KEWALO MARINE LABORATORY UNIVERSITY OF HAWAII

The University of Hawaii invites applications for an 11-month, tenure-track, salaried Assistant Researcher to join the faculty at the Kewalo Marine Laboratory Pacific Biomedical Research Center. The position is subject to clearance and to the availability of funds. We seek individuals with research interests in the biology of marine coastal species, including molecular and biochemical mechanisms of (1) response to environmental stress, (2) microbial interactions, or (3) processes of invasion and extinction. Candidates must have a Ph.D. in the biological sciences, at least two years of postdoctoral experience, a solid publication record, and demonstrated potential to obtain extramural funding. Responsibilities include maintaining an active, funded research program, training biologists at the graduate and postdoctoral levels, and participating in developing the mission of the Kewalo Marine Laboratory as part of the Institute's Center for Conservation Research and Training. Minimum Annual Salary: \$40,524. Applicants should submit a letter describing research interests and experience; a current curriculum vitae; copies of three publications; and names, addresses, e-mail, and telephone numbers of four references to: **Dr. F. C. Greenwood, Director, Pacific Biomedical Research Center, University of Hawaii, 1993 East-West Road, Honolulu, HI 96822. Telephone: 808-956-7401. Deadline for applications is October 31, 1997. Applications will be considered on November 3, 1997, and will be open until the position is filled. The University of Hawaii is an Equal Opportunity Employer.**

BRUMBAUGH SCIENCE CENTER BUILDING MANAGER

Juniata College currently has an opening for Building Manager of Brumbaugh Science Center. This position is responsible for the oversight of the maintenance, operations, and safety of the Brumbaugh Science Center, an educational facility consisting of classrooms and instructional/research labs. The position has responsibility for managing chemical/building stockroom, supervising other building personnel, and providing lab support for the Chemistry Department.

This position requires a Bachelor's degree in chemistry or biology; experience in building maintenance management and lab procedures; knowledge of regulations governing safety and hazardous materials; computer skills, specifically Microsoft Office; and strong communication skills.

Juniata College is a private, liberal arts college in central Pennsylvania and is highly regarded for its academic excellence.

Send letter, résumé, and three references to: **Gail Leiby Ulrich, Director of Human Resources, Juniata College, Huntingdon, PA 16652. Applications accepted until position is filled.**

Affirmative Action/Equal Opportunity Employer. Juniata is committed to gender and cultural diversity and encourages applications from women and minorities.

POSITIONS OPEN



ARIZONA STATE UNIVERSITY

RESEARCH SCIENTIST IN BIOIMAGING

The W. M. Keck Bioimaging Laboratory at Arizona State University seeks applications for a full-time Research Scientist who will manage the daily operations of a multi-user facility dedicated to application of new imaging techniques to research in the biological, medical, and bioengineering fields. This position is on a renewable, state-funded, annual contract.

The successful candidate must have a Ph.D. degree, two or more years of experience in bioimaging, and demonstrated evidence of a high degree of expertise in using computer software and hardware dedicated to imaging tasks. Candidate must have evidence of ability to interact productively with users, write grant proposals on behalf of the Laboratory, and represent the Laboratory at scientific meetings. This position is intended to provide up to 25% time for independent and/or collaborative research in bioimaging.

Applicant must submit a curriculum vitae, a statement of experience and research interests in bioimaging, appropriate reprints, and arrange to have three letters of recommendation sent to: **Dr. Douglas E. Chandler, Director, W. M. Keck Bioimaging Laboratory, Department of Biology, Arizona State University, Tempe, AZ 85287-1501. Application deadline is September 8, 1997, with applications reviewed weekly thereafter until the position is filled. Website: <http://lsvl.asu.edu/biology/jobs>. Arizona State University is an Affirmative Action/Equal Opportunity Employer.**

The Metropolitan Water Reclamation District of Greater Chicago is an independent government agency serving an area which includes the City of Chicago and 124 suburban communities. The District serves a population of 5.1 million people, treats an average of 1.4 billion gallons of wastewater each day, and owns and operates one of the world's largest water reclamation plants, in addition to six other plants and 34 pumping stations. The District's laboratories are recognized nationally and internationally as leaders and innovators in the field of wastewater treatment.

The District will conduct civil service examinations for the following positions:

MICROBIOLOGIST IV: The successful applicant for Microbiologist IV will need to have a Master's degree (Ph.D. preferred) from an accredited four-year college or university with a major in microbiology, bacteriology, or biology, and five years of experience in microbiology with one year of experience at the supervisory level. Candidates who have graduate work beyond the Master's degree in Microbiology may substitute this experience for the required supervisory experience on a year-for-year basis. The annual salary range for this position is \$59,179 to \$86,395.

RESEARCH AND TECHNICAL SERVICES MANAGER: The successful applicant will need to have a Master's degree or a Ph.D. in water resource sciences, environmental engineering, sanitary engineering, or environmental sciences from an accredited college or university. Also required is at least ten years of experience in the operations and applied research fields directly related to municipal wastewater treatment technology, sludge processing and management, and to chemical and biological monitoring of waterways. Six years of said experience must be involved in the direct supervision of professional and technical personnel. Graduate study above the Master's degree may be substituted for the required non-supervisory experience on a year-for-year basis. The annual salary range is \$78,635 to \$114,729.

The District offers a competitive salary; outstanding benefits package including medical, dental, pension plan; and excellent career opportunities. If you are seeking a challenging career opportunity, contact the District at:

Metropolitan Water Reclamation District of

**Greater Chicago
Public Service Office
ATTN: Research Recruitment
100 East Erie Street
Chicago, IL 60611
Telephone: 312-751-5100
FAX: 312-751-5171**

REDCELL

RedCell Canada Inc., a biotechnology company, is seeking exceptional individuals to participate in pioneering new chemical and biological research technologies targeting drug design and delivery for the following positions:

Senior Research Scientist Biochemistry - The successful candidate will have a Ph.D. in Biochemistry with extensive experience in protein purification. The individual must have strong practical and theoretical background in the characterization of protein and protein conjugates including at least two years of postdoctoral experience. Protein bioconjugation and enzymology experience essential. Successful candidates will have supportive publications and industry experience.

Research Scientist Organic chemistry - Applicant should have a Ph.D. in synthetic organic chemistry, or equivalent experience. Expertise with molecular modeling tools and multi-steps solid phase synthesis is desirable. Ideal candidate will possess expertise in combinatorial libraries and peptide chemistry as well as bioconjugation with supportive publications.

Senior Pharmacologist
Ideal candidate will have 5-8 yrs industry experience preferably in drug discovery/development in the areas of cardiovascular biology, inflammation, and/or cancer research. Experience in models of preclinical efficacy and ability to integrate mechanistic studies to support clinical evaluation of new technologies are essential. Extensive team experience in pharmaceutical drug development and demonstrated leadership in managing internal and external projects.

Please forward your résumé to:

RedCell Canada Inc.
Vice President of Research
6100 Royalmount Avenue
Montréal, QC, Canada H4P-2R2

*No phone calls please.
Equal Opportunity Employer*



U.S. ENVIRONMENTAL PROTECTION AGENCY National Exposure Research Laboratory

The U.S. Environmental Protection Agency's (EPA) National Exposure Research Laboratory (NERL) is seeking outstanding candidates for a senior-level scientific position of Environmental Health Scientist/Environmental Scientist, GS-601/1301-14/15. The NERL, with divisions located in the Research Triangle Park (RTP), North Carolina; Cincinnati, Ohio; Athens, Georgia; and Las Vegas, Nevada; conducts research to reduce and quantify the uncertainty in the Agency's exposure assessments for all environmental stressors such as chemicals, microbes, radiation, and changes in climate, land and water use. As Team Leader for the human exposure modeling program, the major duty of the incumbent is to direct and personally contribute to the development of a probabilistic multipathway, multimedia human exposure model. This model should be capable of characterizing the current case of exposure to chemical pollutants as well as making retrospective and prospective exposure estimates for important subpopulations (e.g., children, highly exposed groups). The prospective/retrospective model needs to span from the source of exposure, through fate/transport/transformation, into environmental media, into contact with humans, and eventually to dose to the target tissue. Numerous other NERL scientists are engaged in major aspects of this chain. The Team Leader would be expected to develop the conceptual framework, lead the development of the human exposure segment of the model, and lead the linkage of all the parts of the model, several of which have area-specific team leaders (e.g., fate/transport/transformation models).

Applicants should have an advanced degree in the health sciences, allied sciences, or physical sciences with research experience in human exposure modeling. Ideal candidates will also have experience as a team leader of a multidisciplinary team on human exposure analysis and national or international recognition in the area of exposure modeling. This is a permanent, full time position and will be located at either Las Vegas, Nevada or Research Triangle Park, North Carolina. U.S. citizenship is required and candidates must meet U.S. Office of Personnel Management qualification requirements. Salary ranges from \$63,169 to \$96,594 and is commensurate with qualifications. Final grade of the position is dependent upon the qualifications of the individual selected. The individual is subject to the EPA/ORD Peer Review at the GS-14 and GS-15 levels. Relocation expenses are authorized.

HOW TO APPLY: 1) Current Federal employees, former Federal employees with reinstatement eligibility, or persons with special appointment eligibility may apply through EPA's internal Merit Promotion process by calling our automated Jobline at (919) 541-3014 and leaving a message requesting application materials for the Environmental Health Scientist/Environmental Scientist, Announcement # EPA-RTP-97-192. Detailed instructions on required forms are included in the Merit Promotion application materials. The deadline for submitting Merit Promotion applications is September 30, 1997.

2) All other persons must apply through the U.S. Office of Personnel Management (OPM) by calling the OPM automated jobline on (919) 790-2822 or (912) 757-3000; or accessing OPM via Internet at <http://www.usajobs.opm.gov>, and requesting an OPM application package for the Environmental Health Scientist, Announcement #AR0725 and/or the Environmental Scientist, Announcement #AR0727. Requests for complete OPM application materials must be made between July 28, 1997 and September 30, 1997. Application materials requested during this period must be returned to OPM by the date stated on the OPM announcement.

EPA IS AN EQUAL OPPORTUNITY EMPLOYER.

POSITIONS OPEN

TOXICOLOGIST

The Cosmetic, Toiletry, and Fragrance Association is seeking a Ph.D. Toxicologist with one to three years of experience to monitor, and critically evaluate, relevant scientific literature, provide technical and administrative support for association committees and task forces, monitor extramural *in vitro* and *in vivo* toxicity testing and clinical safety studies, and assist in maintaining a computerized database for ingredient and product safety information. Familiarity with safety testing requirements of major government agency programs, FDA, CPSC, etc., is a plus. Demonstrated excellent communication skills, both written and oral, and familiarity with computers are essential.

Please provide a résumé with salary history and at least two samples of technical writing ability, along with a letter explaining why you would be a good candidate for this position, to: **1101 17th Street, N.W., Suite 300, Washington, DC 20036, ATTN: Science Department, Box 3.**

SCIENCE RESEARCH ASSOCIATE

The Cosmetic, Toiletry, and Fragrance Association is seeking a Science Research Associate to abstract literature, prepare reports of meetings, coordinate industry surveys, provide administrative support for committee and task forces, and assist the Vice President—Science on special projects. Knowledge of and experience in the biological and chemical sciences, excellent written and oral communication skills, and a demonstrable knowledge of the use of the Internet for search and retrieval of scientific information is essential. Above-average word processing skills are expected.

Please provide a résumé with salary history and at least two samples of technical writing ability, along with a letter explaining why you would be a good candidate for this position, to: **1101 17th Street, N.W., Suite 300, Washington, DC 20036, ATTN: Science Department Box 3. Equal Opportunity Employer.**

RENAL PHYSIOLOGIST

Applications are invited for an appointment as a Renal Physiologist to lead a strong and distinguished research program in regulatory physiology in the Division of Intramural Research, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), National Institutes of Health. Candidates are sought with experience using modern molecular and cellular approaches, including functional studies in genetically modified animals, to understand intrarenal regulation of the circulation. Candidates should have a strong international reputation and record of a highly competitive and productive research program. Please send curriculum vitae and bibliography to: **Ms. Kay Place, Division of Intramural Research, NIDDK, Building 10, Room 9N222, 10 Center Drive MSC 1818, National Institutes of Health, Bethesda, MD 20892-1818.** The closing date is August 28, 1997.

MEDICAL DIRECTOR Ph.D., Pharm.D. or M.D.

Medical Education firm seeks a **MEDICAL DIRECTOR** due to growth and success in providing high quality medical education programs for its major pharmaceutical clients.

Experience in writing medical publications and other forms of medical communications. Ability to communicate well and participate in goal-directed teams. A Ph.D., Pharm.D., or M.D. is required. Therapeutic areas of interest include oncology, cardiovascular, central nervous system, infectious and inflammatory diseases. Mail résumé to: **Applied Clinical Comm., 1160 Parsippany Boulevard, Parsippany, NJ 07054. FAX: 201-316-5997; e-mail: jdagnese@appliedclinical.com.**

POSTDOCTORAL POSITION available immediately to study the neurotrophic regulation of synaptic plasticity in the brain. Candidates with backgrounds in whole-cell patch clamping, single channel recording, and the use of cell culture and slice preparations would be most appropriate. Ph.D. in neurobiology preferred. Please send applications including curriculum vitae and names of three references to: **Dr. Ira B. Black, Professor and Chair, Department of Neuroscience and Cell Biology, University of Medicine and Dentistry of New Jersey, Robert Wood Johnson Medical School, 675 Hoes Lane, CABM Building, Room 342, Piscataway, NJ 08854.** UMDNJ is an Affirmative Action/Equal Opportunity Employer. Minorities/Females/Disabled/Veterans, and a member of the University Health System of New Jersey.

POSITIONS OPEN



FRED HUTCHINSON CANCER RESEARCH CENTER

YEAST GENETICIST

Staff Scientist positions for a Yeast Molecular Geneticist with postdoctoral experience in the Seattle Project at the Fred Hutchinson Cancer Research Center are available immediately. We are seeking scientists to work: (i) Within the NCI Field Station as a member of the Yeast Profiling Team studying mechanisms of sensitivity for novel and established chemotherapeutics. This scientist will direct the construction and use of our yeast damage response mutant collection. (ii) Within the Synthetic Lethal Screening Program. This scientist will perform both traditional and newer comprehensive synthetic lethal screens to identify and validate secondary targets for new anticancer agents. Both positions allow close interactions with all members of the Seattle Project at the Fred Hutchinson Cancer Research Center. Salary dependent on experience, plus excellent benefits. On-site child care. Interested candidates may submit a curriculum vitae, three letters of recommendation, and a description of current research and long-term interests by the closing date of September 15, 1997 to: **Stephen H. Friend, M.D., Ph.D., Director of Molecular Pharmacology, Fred Hutchinson Cancer Research Center, Recruit #KM-7550, 1124 Columbia Street, M-477, Seattle, WA 98104. Equal Opportunity Employer.**

RESEARCH ASSOCIATE

Hybritech, Inc. is a subsidiary of Fortune 500 Beckman Instruments and a recognized leader in the development of medical diagnostic products utilizing monoclonal antibody technology. Our vision is to help science improve the quality of life. In doing so, we seek dynamic, high energy individuals.

Primary responsibilities of this basic research position include cloning and expression of mammalian proteins in mammalian cells and bacteria, maintaining and propagating recombinant cell lines, and purification of recombinant proteins. Also plan, design, and execute experiments in this area.

Qualifications: B.S./M.S. Biology, four or more years of related experience. Experience with eucaryotic molecular biology, tissue culture, and recombinant mammalian cell lines. Basic knowledge and experience in protein analysis techniques. Ability to work independently, be a team player, and have good verbal and written communication skills.

Hybritech provides an innovative, empowering team environment where continuous process improvement is recognized and rewarded. We offer a competitive compensation program, excellent benefits, and employee development. Please forward your résumé to: **Hybritech, Inc., ATTN: HR, P.O. Box 269006, San Diego, CA 92196-9006. An Affirmative Action Employer.**

PRODUCTION ASSOCIATE STRATAGENE

Stratagene, an industry leader in the development and manufacture of molecular biology research products, has an outstanding career opportunity for a qualified Production Associate. Ideal candidates will possess a minimum of a B.S./B.A. in Molecular Biology or Biological Science and two to three years of experience, including a background in cDNA and genomic library construction and screening, PCR, RNA, lambda, and plasmid technology.

Stratagene offers a rewarding work environment, a competitive salary, and excellent benefits. Send résumé to: **Stratagene, 11011 North Torrey Pines Road, La Jolla, CA 92037, ATTN: Professional Staffing 32062-97R.** Drug and alcohol testing required. Equal Opportunity Employer.

Receptor Biology, Inc., a young dynamic biotech firm located in suburban Washington, D.C. seeks a **RESEARCH SCIENTIST** to clone new receptors and/or ion channels. The successful candidate will possess a Ph.D. and two years of experience screening cDNA/genomic libraries, facility with mammalian expression systems and cell culture. Qualified applicants should forward a curriculum vitae and three references to: **Dr. Steven I. Max, Receptor Biology Inc., 10000 Virginia Manor Road, Suite 360, Beltsville, MD 20705. E-mail: smax@receptorbiology.com.**

POSITIONS OPEN

RESEARCH ASSOCIATE. Two postdoctoral positions available to study molecular mechanisms of amino acid transport. Studies will focus on gene regulation by growth and amino acid availability. Experience in molecular biology and biochemistry required. Send or FAX curriculum vitae to: **Maria Hatzoglou, Department of Molecular Nutrition, Case Western Reserve University, 10900 Euclid Avenue, Cleveland, OH 44106-4935. FAX: 216-368-6644.**

AQUATIC TOXICOLOGY BRANCH CHIEF TOXICS MECHANISM RESEARCH BRANCH

The U.S. Environmental Protection Agency (EPA) is seeking qualified applicants for the position of Branch Chief of the Toxic Mechanisms Research Branch (TMRB), Mid-Continent Ecology Division, National Health and Environmental Effects Research Laboratory, Duluth, Minnesota. The Division conducts research on ecotoxicology and freshwater ecology in order to reduce uncertainty in ecological risk assessments. The TMRB conducts research on biochemical and cellular toxicodynamics, xenobiotic metabolism, and the development of physiologically-based toxicokinetic models as approaches to assist in improving extrapolations of toxic effects across chemicals and species as well as in interpreting and predicting toxic effects.

The Branch Chief will provide scientific leadership for the branch; supervise approximately 22 toxicologists, biologists, and chemists; and serve on the senior management team for the Division. This is a permanent, full-time position located in Duluth, Minnesota. U.S. citizenship is required and candidates must meet U.S. Office of Personnel Management (OPM) qualification requirements including specific educational coursework. This position may be filled as a Supervisory Research Aquatic Biologist, GS-401-14; Supervisory Toxicologist, GS-415-14; or Supervisory Research Chemist, GS-1320-14. Salary ranges from \$63,169 to \$83,120 and is commensurate with qualifications.

To apply, current or former permanent federal employees may apply through EPA by calling our automated jobline at: **919-541-3014** and leaving a message requesting the vacancy announcement and application package. The vacancy number is EPA-RTP-97-99A. Merit Promotion applications must be received by September 8, 1997.

All other candidates must apply through OPM by calling their automated jobline at: **919-790-2822** or by accessing OPM via the Internet at: <http://www.usajobs.opm.gov> and requesting the application package for announcement AR0741 (Supervisory Research Aquatic Biologist); AR0742 (Supervisory Toxicologist); AR0743 (Supervisory Research Chemist). Requests for application materials from OPM must be made no later than September 8, 1997.

EPA is an Equal Employment Opportunity Employer.

SENIOR SCIENTIST, POSTDOCTORAL, and TECHNICIAN POSITIONS for CHEMISTS and BIOCHEMISTS are available at Analytical Biological Services Inc. ABS is a rapidly growing entrepreneurial company that supplies pharmaceutical and biotechnology companies with custom bioreagents and cell culture services. Candidates will work on the development of a new liposome polymer-based biosensor technology (Biosomes™) that is directed at the rapid detection of enzyme inhibitors and receptor agonists and antagonists. Chemists with experience in organic synthesis, bioconjugate chemistry, and analytical chemistry are needed. Biochemists with receptor binding experience, knowledge of enzyme analysis, and assay development are also needed. Competitive salary and benefits, plus the possibility of rapid advancement for the right individuals. Send curriculum vitae to: **Dr. Sarah A. Sporn, ABS Inc., 701-4 Cornell Business Park, Wilmington, DE 19801.**

The Exeter Group is a medical education company whose clients are among the leaders in the pharmaceutical industry. By educating physicians, we help our clients meet their commercial goals. We seek a **MEDICAL EDITOR/WRITER** to join our team. The successful candidate will have a strong science background (Ph.D. preferred) and exceptional communication skills. This position entails significant responsibility. Salary will be competitive. Curriculum vitae, letter to: **Personnel, 400 Madison Avenue, Suite 807, New York, NY 10017.**

**INTERDISCIPLINARY, NATIONAL INSTITUTES OF HEALTH
NATIONAL CANCER INSTITUTE
FREDERICK CANCER RESEARCH
AND DEVELOPMENT CENTER
OFFICE OF THE DIRECTOR**

The National Cancer Institute is looking for two highly motivated, innovative biomedical scientists who will work in the Office of the Associate Director of the National Cancer Institute, Frederick Cancer Research and Development Center (NCI-FCRDC) developing new programs which will aid in attaining the goals of the NCI.

These two positions will work closely with the new Associate Director, NCI-FCRDC to examine the role that the Center plays as an integral component of the intramural and extramural functions of the NCI. It is planned that this NCI facility, composed of four commercial contractors plus approximately 350 intramural NCI scientists, will become an outstanding national center for AIDS and molecular biologic research and an advanced resource for biomedical technologic methodologies. Both positions will be involved with planning goals, allocation of resources, and networking with the Divisions of NCI and with other Institutes within the National Institutes of Health.

The positions are located at the NCI-FCRDC in Frederick, Maryland, which is 30 minutes north of the main NIH campus. These positions in the U.S. Government are GS-14/15 and have the academic equivalent rank of an assistant/associate professor. United States Citizenship is required. A doctoral degree (Ph.D. or M.D.) is essential but not required, and background in molecular biology, cell biology, genetics, biochemistry, etc., is also a requirement.

If interested, please call (301) 402-2789 for a copy of the recruiting bulletins #CA-97-1937/CA-97-1938. You will also be required to respond to questions concerning your knowledge, skills, and abilities as they relate to the job as stated on the recruiting bulletins.



The NIH is an equal opportunity employer and encourages all qualified women and minorities to apply.



GLOBAL CAREER OPPORTUNITIES

UNIVERSITÄT KONSTANZ

Postdoctoral Research Associates/Assistant Professors (BAT IIa) in evolutionary biology at the University of Konstanz/Germany

Two positions as Postdoctoral Research Associates/Assistant Professors in evolutionary biology are available in the Department of Biology at the University of Konstanz. Diverse research topics will be considered and might include molecular evolution/phylogenetics, molecular ecology, conservation genetics, behavioral ecology, and the evolution of developmental mechanisms. These appointments coincide with the establishment of the new group in evolutionary biology by Axel Meyer. A total of three sub-groups, each headed by a Research Associate/Assistant Professor, will represent their particular subdisciplines of evolutionary biology. Excellent opportunities in terms of space, equipment, departmental facilities, and support are available to build a productive and internationally competitive research program. The taxonomic emphasis is open; however, work on fishes, particularly the zebrafish and cichlid fish model systems is favored. The University of Konstanz and the Department of Biology are among the most highly rated in Germany and provide a lively and academically outstanding research environment. The charming town of Konstanz is located on Lake Constance one hour from Zürich, and is close to both Switzerland and France.

Appointments are initially for three years, and are renewable for up to five, with an annual salary of approximately 90.000 DM (52.000 US\$). Habilitation is possible, but some teaching (English initially or German) would be required. Earliest starting date is Oct. 1, 1997, but positions will be open until filled. Additional information about these positions can be obtained from axel.meyer@uni-konstanz.de, tel. +49/7531/884163, fax +49/7531/883018.

The University of Konstanz tries to increase the number of women in research and teaching and encourages female scientists to apply.

Applications in writing, including a full CV, publications, and three letters of recommendation, should be sent to: **Prof. Dr. Axel Meyer, Department of Biology, University of Konstanz, D-78457 Konstanz, Germany.**

GLOBAL CAREER OPPORTUNITIES



University of Otago

Te Whare Wananga o Otago

New Zealand

LECTURER IN PHARMACOLOGY

Applications are sought for an appointment subject to confirmation as a Lecturer in the Department of Pharmacology, University of Otago. Appointment to a limited term contract position could also be considered. The successful applicant will hold a doctoral degree, will have an outstanding record of research accomplishment, enthusiasm for innovative teaching, and evidence of ability to attract and sustain external funding. Appointment of an experienced person could be made at the senior lecturer level.

The ideal appointee will have employed a solid background in molecular skills to investigate disease mechanisms and therapeutics for cardiovascular disease (e.g., stroke, myocardial infarction, control of cell death) utilizing in vitro and complementary in vivo approaches. However, strong candidates who use contemporary methodologies in any area of pharmacology and toxicology of high clinical relevance are also encouraged to apply. The appointee will participate in the teaching of graduate, and undergraduate students in health sciences. A research start-up package will be made available to the successful candidate.

The Department of Pharmacology is currently undergoing a phase of expansion, with three additional appointments planned during the next 12 - 18 months. Areas of current research interest include neuropharmacology, (mechanisms of neuronal cell death and neuroprotection, pharmacology of drugs of abuse, neurotoxicology, clinical neuropharmacology), cardiovascular pharmacology, (esp. stroke and hypertension), and hepatotoxicity.

The Department of Pharmacology is located in the University of School of Medical Sciences, the oldest and largest medical school in New Zealand, which offers opportunities for extensive interdisciplinary interactions within basic (e.g., Centre for Gene Research, Neurosciences Research Centre) and clinical sciences (including cardiology, vascular surgery, neurology, psychiatry). It is situated in Dunedin, an attractive university town (population 120,000) with a very active cultural scene and extensive sporting facilities. This friendly seaside city offers a high quality of life, with affordable housing and easy access to many of the significant wildlife areas in the South Island.

Initial appointments will be made at a step on the Senior Lecturer/ Lecturer scale (non-medical or medical) according to qualifications and experience.

Lecturer (Medical)	NZ\$45,000p.a. - NZ\$53,000p.a.
Lecturer (Non-Medical)	NZ\$42,750p.a. - NZ\$53,250p.a.
Senior Lecturer (Medical)	NZ\$72,000p.a. - NZ\$92,000p.a.
Senior Lecturer (Non-Medical)	NZ\$56,250p.a. - NZ\$66,250p.a.

Specific enquiries about this position can be addressed initially to Professor R Lavery, (Fax 64 3 479 9140; e-mail dick.lavery@stor.bow.otago.ac.nz). Information about the Department and the University is available on the Web at <http://www.otago.ac.nz/Pharmacology/>.

Reference No. A97/67. Closing Date: 10 September 1997

METHOD OF APPLICATION

Further details regarding this position, the University and the application procedure are available from the Deputy Director, Personnel Services, University of Otago, PO Box 56, Dunedin, New Zealand (facsimile 64-3-474 1607 or e-mail david.frame@stonebow.otago.ac.nz).

Applicants should send two copies of their curriculum vitae together with the names, addresses and fax numbers of three referees, to the Deputy Director of Personnel Services by the specified closing date, quoting the above reference number.

*Equal opportunity in employment is University policy.
E tautoko ana Te Whare Wananga o Otago i te kaupapa whakaorite whiwhinga mahi.*

POSITIONS OPEN

POSTDOCTORAL POSITION IN PROTEIN CRYSTALLOGRAPHY

A postdoctoral position is available immediately for structure/function studies of the insulin receptor tyrosine kinase (*Nature* 372:746-754, 1994; *Cell* 86:577-587, 1996). Candidates should have expertise in either protein biochemistry or X-ray crystallography. Send curriculum vitae and names of three references to: **Dr. Stevan Hubbard, Skirball Institute of Biomolecular Medicine, New York University Medical Center, 540 First Avenue, New York, NY 10016. FAX: 212-263-8951; e-mail: hubbard@tallis.med.nyu.edu.**

POSTDOCTORAL POSITION available immediately to study the mechanism of anticancer drug transport in tumor cells as mediated by naturally occurring and site-directed mutants of class I P-glycoproteins. Expertise in recombinant DNA technology including cDNA cloning and expression vector construction is required. Please forward a curriculum vitae, three letters of reference, and a statement of research interests to: **P. W. Melera, Ph.D., Department of Biochemistry and Molecular Biology, University of Maryland, School of Medicine, 108 North Greene Street, Baltimore, MD 21201. FAX: 410-706-4037; e-mail: pmelera@umabnet.ab.umd.edu.**

POSTDOCTORAL POSITION. Candidates with experience in oncogenes/G proteins/signaling to study function and mechanism of transformation of the *lbc* oncogene, a multidomain regulator of the Rho small GTP binding protein that mediates actin cytoskeletal organization and cell proliferation via a novel signaling pathway. Research focuses on how dysregulation by *lbc* leads to malignancy. Position requires U.S. citizen/permanent resident with a Ph.D. Send curriculum vitae to: **Dr. D. Toksoz, Department of Physiology, Tufts University School of Medicine, 136 Harrison Avenue, Boston, MA 02111. E-mail: dtoksoz@infonet.tufts.edu. Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL FELLOWSHIP IN IMMUNOLOGY

A position is available immediately to study mechanisms by which mycobacterial products regulate the activation and function of leukocytes. *Permanent residency or U.S. citizenship required.* Please send curriculum vitae and three reference letters to: **Matthew J. Fenton, Ph.D., The Pulmonary Center Boston University School of Medicine, 80 East Concord Street, Boston, MA 02118-2394. FAX: 617-536-8093; e-mail: mfenton@bupula.bu.edu.**

POSTDOCTORAL POSITIONS available immediately to study molecular biology of bone. Experience in molecular biology and/or histological methods preferred. Please send curriculum vitae and names of three references to: **L. G. Raisz, M.D., Department of Medicine, University of Connecticut Health Center, MC1850, 263 Farmington Avenue, Farmington, CT 06030. E-mail: raisz@nso.uchc.edu. Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITIONS available for studies of leukocyte eicosanoid formation and eosinophil trafficking and function. Please send curriculum vitae and three references to: **Dr. Peter F. Weller, Beth Israel Deaconess Medical Center, Harvard Medical School, 300 Brookline Avenue, Boston, MA 02215. FAX: 617-277-6061. Equal Opportunity Employer/Affirmative Action.**

POSTDOCTORAL POSITION MOLECULAR BIOLOGY AND CYTOKINE GENE REGULATION

FDA/Center for Biologics Evaluation and Research (NIH Campus, Bethesda, Maryland) has a postdoctoral position available immediately to study the mechanisms by which certain T cell-derived cytokines (interferons, interleukin-4 (IL-4) and IL-10) regulate expression of various genes in human monocytes. Applicants must have a Ph.D. and/or M.D., and zero to three years of postdoctoral experience. Individuals with interests and experience in signal transduction, gene cloning, and/or mammalian cell transfection procedures are especially encouraged to apply. Send curriculum vitae to: **Raymond Donnelly, Ph.D., FDA-CBER, Division of Cytokine Biology (HFM-505), 1401 Rockville Pike, Rockville, MD 20852. FAX: 301-402-1659; e-mail: donnelly@a1.cber.fda.gov.**

POSITIONS OPEN

POSITIONS AVAILABLE

Immediate openings for well-qualified young scientists to investigate the basic mechanisms by which reactive oxygen species modify (1) surfactant function, or (2) ion transport across ATR cells. Candidates must have strong background, as evidenced by their Ph.D. dissertation or publications in peer-reviewed journals in the appropriate areas of research. Depending on experience and qualifications, the successful candidates may be appointed either at the **RESEARCH ASSOCIATE** or **RESEARCH ASSISTANT PROFESSOR** level. *Permanent residents or citizens of the U.S. will be given preference; however, all qualified candidates will be considered.* Applicants should send curriculum vitae to: **Dr. Sadis Matalon, Department of Anesthesiology, University of Alabama at Birmingham, 619 South 19th Street, THT 940, Birmingham, AL 35233. FAX: 205-934-7437; e-mail: sadis.matalon@ccc.uab.edu.**

POSTDOCTORAL POSITIONS—RNA

NIH-funded postdoctoral positions are available in the laboratory of **Thoru Pederson** in a program on RNA processing and the intracellular traffic and localization of RNA in mammalian cells. Prior training in the molecular biology of RNA is essential, and experience in cell biology and microscopy is highly desirable. These positions are available December 1, 1997, or soon thereafter. Send curriculum vitae, including description of previous research, and the names of three references (with telephone numbers and e-mail addresses) to: **Thor Pederson, Worcester Foundation for Biomedical Research, University of Massachusetts Medical Center, Worcester Foundation Campus, 222 Maple Avenue, Shrewsbury, MA 01545. The Worcester Foundation and the University of Massachusetts Medical Center are Equal Opportunity Employers. Women and minority candidates are encouraged to apply.**

POSTDOCTORAL POSITIONS IN EUKARYOTIC GENE REGULATION

Postdoctoral positions are available to study the regulation of gene expression in the immune system. Our studies focus on the molecular mechanisms of MHC class II gene expression, regulation of genes by TNF, and the role of the MHC in fetal-maternal tolerance. Candidates should have an immunology background and experience in molecular biology technology. Please send curriculum vitae, names of two or more references, and a short statement of research interests to: **Jeremy M. Boss, Ph.D., Department of Microbiology and Immunology, Emory University School of Medicine, Atlanta, GA 30322.**

POSTDOCTORAL and RESEARCH ASSISTANT POSITIONS are available to study the molecular mechanisms underlying development. Studies focus on how transcription factors regulate developmental decisions during heart and sympathetic nervous system formation using biochemical and mouse molecular genetic approaches. Experience in vertebrate embryo manipulation, tissue/organ culture, or molecular biology is essential. Send curriculum vitae and names of three references to: **Peter Cserjesi, Ph.D., Department of Anatomy and Cell Biology, Columbia University College of Physicians and Surgeons, 630 West 168th Street, New York, NY 10032.**

POSTDOCTORAL POSITION

A postdoctoral position is available immediately to study novel retinoid target genes in cell differentiation and development, by gene knockout and transgenic strategies. Experience in molecular biology essential, training in transgenic work preferred. Please send curriculum vitae along with names and addresses of three references to: **Dr. Reshma Taneja, Department of Medicine, Box 1178, The Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574. FAX: 212-996-5787; e-mail: taneja@msvax.mssm.edu. We are an Equal Opportunity Employer fostering diversity in the workplace.**

POSTDOCTORAL POSITIONS available—Yale University Department of Pharmacology. Positions available for structure-function studies of biogenic amine transporters to identify domains involved in substrate and inhibitor binding and translocation. Experience in molecular biology or transport preferred. Send curriculum vitae and three letters of reference to: **Dr. Gary Rudnick, Department of Pharmacology, Yale University School of Medicine, 333 Cedar Street, P.O. Box 3333, New Haven, CT 06510-8066.**

POSITIONS OPEN

UNIVERSITY OF ROCHESTER POSTDOCTORAL POSITION mRNA EDITING

Apolipoprotein B mRNA is edited through selective C to U conversion (*TIGS* 12:418-424, 1996). *In vitro* analyses have suggested that a macromolecular assembly the editosome may regulate site-specific editing. Protein-RNA interactions are required for the assembly of editosomes and site-specific editing. These proteins and their genes will be the focus of a new postdoctoral position. Fellows will enjoy the benefits of being affiliated with a knowable and dedicated biomedical research team at a rapidly expanding University with a tradition and the facilities for research excellence. A funded position is available for two years. Please send curriculum vitae and contact addresses to: **Dr. Harold C. Smith, Department of Biochemistry and Biophysics, Box 712, University of Rochester, 601 Elmwood Avenue, Rochester, NY 14642. E-mail: hsmith@bphvax.biophysics.rochester.edu.**

MOLECULAR PHYSIOLOGY/MICROBIAL PATHOGENESIS

POSTDOCTORAL POSITIONS are available to study regulation of ion channels, virulence gene expression, pathogenicity islands, and resistance to antimicrobial peptides. Recent Ph.D. or M.D./Ph.D. graduates with experience in protein biochemistry and molecular biology are encouraged to apply.

Send curriculum vitae, a brief statement of research interests, and names of three references to: **E. A. Groisman, Washington University School of Medicine, Department of Molecular Microbiology, 660 South Euclid Avenue, Campus Box 8230, St. Louis, MO 63110. E-mail: groisman@borcim.wustl.edu.**

Equal Opportunity Employer.

ALZHEIMER'S DISEASE RESEARCH

POSTDOCTORAL POSITION open immediately to study the effect of ribozymes and antisense oligonucleotides on β -peptide formation in a canine smooth muscle cell culture model. Experience with cloning, RNA preparation and handling, and eukaryotic cell culture, transfection, and maintenance is absolutely required.

Send curriculum vitae and three letters of recommendation to:

**Melvin Hicks
NYS Institute for Basic Research
1050 Forest Hill Road
Staten Island, NY 10314
Ref. #818**

POSTDOCTORAL POSITIONS available to study (i) the effects of extracellular matrix on signaling events regulating cell growth, cell survival, and fibronectin and collagen deposition using a newly established fibronectin null cell line (contact **Dr. Jane Sottile, e-mail: jane_sottile@ccgateway.amc.edu**); (ii) molecular mechanisms of integrin signaling (contact **Dr. Susan LaFlamme, e-mail: susan_laflamme@ccgateway.amc.edu**). Experience in cell and molecular biology desired. Send curriculum vitae and three letters of reference to: **Dr. Sottile or Dr. LaFlamme, Department of Physiology and Cell Biology, Albany Medical College, 47 New Scotland Avenue, Albany, NY 12208.**

POSTDOCTORAL POSITIONS

Postdoctoral Fellowship positions are available in the Molecular Cardiology program at Columbia University College of Physicians and Surgeons. Applicants should have extensive experience in molecular and cellular biology; prior experience in cardiovascular systems is not required. Send curriculum vitae, reprints of publications, and three letters of recommendation to: **Dr. Andrew R. Marks, Director of Molecular Cardiology, Columbia University, P&S 9-401, 630 West 168th Street, New York, NY 10032. Columbia University is an Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION STREPTOCOCCAL GENETICS/PHYSIOLOGY

Postdoctoral position to study virulence traits in *Streptococcus mutans*. Ph.D. required. Experience in molecular biology and solid background in microbial physiology preferred. Salary, \$25,000 to 30,000. Send curriculum vitae to: **Dr. Arnold Bleiweis, University of Florida, Department of Oral Biology, P.O. Box 100424, Gainesville, FL 32610. FAX: 352-392-3070.**

Tenure-Track Positions Assistant Professor Equivalent

Gene Therapy

The Laboratory of Immunology, NEI, is searching for a tenure-track M.D. scientist with expertise in gene therapy and the diagnosis and treatment of retinal diseases. The candidate will be responsible for the development and implementation of ocular gene therapy trials involving retinal diseases particularly inflammatory and vascular disorders. The candidate will be expected to have expertise in basic science techniques relating to gene therapy with board-certification in ophthalmology and fellowship training in retina. Space, postdoctoral fellow support, supply budget and salary are committed. Applicants must be U.S. citizens or permanent residents. Deadline date is September 15, 1997. Chair, LI Search Committee (OE-128), NEI, c/o Cheryl Wild, Building 31, Room 6A18, 31 CENTER DR MSC 2510, BETHESDA MD 20892-1906.

Immunity and Vaccine Development in Rodent Retroviral Models

A position is available in the Laboratory of Persistent Viral Diseases to develop an independent research program for retroviral diseases in rodents. The focus should be on mechanisms of immunity and vaccine development. Opportunities for collaboration with the present groups at the Rocky Mountain Laboratories working in these areas will be available. Candidates should have a doctoral degree plus at least three years of postdoctoral research experience. This should include work on the immunology and/or pathogenesis of retroviral diseases. Deadline date is September 1, 1997.

Chief, Administrative and Facilities Management Section (OE-128), NIAID, Rocky Mountain Laboratories, 903 South Fourth Street, Hamilton, MT 59840.

Activation of Lymphoid Cells

The Laboratory of Experimental Immunology, DBS/NCI, Frederick, MD invites applications for a tenure-track investigator to conduct independent research studies. Applicants should have a Ph.D. or M.D., demonstrated record of scientific accomplishments and a strong background in the cellular, biochemical and molecular events associated with the activation of lymphoid cells, natural killer cells, monocytes and T cells. The position provides salary and full funding to establish an independent research program including laboratory space, equipment, budget, technical and postdoctoral support. Salary will be commensurate with education and experience. U.S. citizenship or eligible resident alien status is required. Deadline date is September 15, 1997. Ms. Carrie Jennings (OE-128), NCI-FCRDC, Building 576, Frederick, MD 21702-1201.

To Apply

Please send a cover letter, *curriculum vitae*, bibliography, a one-to two-page statement of research interests and goals, and selected publications to the address listed with each position. In addition, please arrange to have letters of recommendation sent from three references who can provide an evaluation of your professional qualifications.



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Postdoctoral Position Inactivation of Intracellular Targets Angelo Russo, M.D., Ph.D.

A Postdoctoral position is available immediately to construct and apply recombinant peptide library technology to inactivate intracellular targets. Present studies have centered on construction of a library of binding proteins created by random mutation of fifteen nucleotides within the CDRIII region of the immunoglobulin heavy chain gene and displayed as coat protein fusion constructs of M13 phage. The library can be screened for the binding protein of interest, its corresponding gene antecedent isolated, and subsequently re-engineered for eukaryotic expression within a cassette with an inducible promoter. Application of this intracellular "knockout" technology will be used to pursue the molecular biologic consequences and mechanisms of oxidative stress resulting from ionizing radiation and other cancer treatment modalities. The applicant must have broad experience in molecular biologic recombinant methodology including vector construction, oligonucleotide synthesis, site specific mutation, and protein isolation techniques. Applicants must have less than five years of postdoctoral experience. Applicants should submit a curriculum vitae, three names of references, or three letters of references sent directly to: Dr. Angelo Russo, Radiation Biology Branch, National Cancer Institute, National Institutes of Health, Bldg. 10, Room B3-B69, Bethesda, MD 20892 or via e-mail at russo@helix.nih.gov. NIH is an Equal Opportunity Employer.

GLOBAL CAREER OPPORTUNITIES

QBI is Israel's leading genomic biotech company with additional research facilities in Chicago and San Francisco. The company's unique disease-specific gene discovery platform is based on complementary use of functional genetic approach-based technology and transcript and protein-profiling technologies.

We are searching for several highly motivated scientists to join us at our research center at the Weizmann Scientific Park in Rehovot, Israel. If you would like to live in Israel and take part in innovative research spanning from discovery to development, this is a unique opportunity. You will join a team of scientists dedicated to basic research and to the development of new drugs and diagnostics.

Bioinformatics Scientist (Group Leader)

Working in close collaboration with our research scientists you will identify and create opportunities to find better drug targets by using and developing bioinformatics tools and databases more efficiently. The position requires a degree in Computer Sciences, Mathematics, or Biology, demonstrated experience in developing database/information system. Candidates must have a knowledge of sequence, gene expression, mapping, and related databases and be familiar with state-of-the-art bioinformatics software.

Gene Discovery Scientist

You will participate in QBI's gene discovery program. Responsibilities will include the development of new technologies which augment the gene discovery process at QBI. It is expected that this individual will be involved in management and coordination of QBI's collaborative efforts with its corporate partners. The position requires a Ph.D. in the biological sciences with 3 or more years of postgraduate experience.

Molecular/Cellular Biologist

You will lead the research effort directed to characterize new genes that have been selected as targets for drug development. Candidates should have an outstanding record as an independent investigator. The position requires a Ph.D. with at least 3 years of experience.

Biochemist

You will design and conduct assay development studies and develop novel approaches for purification of protein and nucleic acids. The position requires a Ph.D. with extensive protein biochemistry and enzymology experience, proven ability to purify proteins and nucleic acids, and at least 3 years of related experience.

Clinical Scientist

You will provide scientific leadership for our clinical development project. In this role, you will partner with clinical and related corporate teams to measure project progress, monitor variances and propose contingency plans. You will act as consultant to our research organization and apply your knowledge of FDA regulations by incorporating them into clinical project design, and into interactivity directly with FDA or similar bodies outside the U.S.A. The position requires an M.D. with minimum 2 years of experience designing and implementing clinical studies.

The Company offers excellent salary with stock options and full relocation assistance. Please send your résumé to Dr. R. Skalter.

To apply, candidates may either FAX, e-mail, or mail to:

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P.O. Box 741, Nes Ziona 74106, Israel

Tel: 972-8-9408147; FAX: 972-8-9406476, E-mail: skalter@qbi.co.il

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We recognize that diverse perspectives are a key factor in the process of discovery. At Amgen, your accomplishments are rewarded. We offer a highly competitive compensation and benefits package that includes a retirement and savings plan, an on-site fitness center and three weeks' vacation. For immediate consideration, please mail your resume to: Amgen, Attn: SD, Job Code: TPSC, 1840 Dehavilland Drive, M/S 24-2-C, Thousand Oaks, CA 91320-1789. E-mail (in ASCII text): sdolkart@amgen.com Visit our web site at www.amgen.com for detailed information on other opportunities. Principals only, please. EEO/AA Employer M/F/D/V

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\$103,897 - 123,100 annually

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1. Broad background in physical and atmospheric sciences with demonstrated professional experience in one or more of the following: meteorology, weather research, hydrology and/or environmental science.
2. Broad experience with basic and applied weather research, and related applications and policy issues.
3. Broad knowledge of the technological applications and policy issues that motivate weather research, forecasting and warnings.
4. Demonstrated experience in scientific program planning and policy development, in particular, those areas which support weather and meteorological services.
5. Substantial senior level experience in administration and direction of a large, geographically dispersed scientific organization relevant to NWS' mission.

Please contact 301/713-0534 (301/713-0973[TDD])
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The VEHB Molecular Epidemiology Group addresses pathogenesis of fatiguing and chronic disease. We are looking for scientists with a strong desire to apply state-of-the-art molecular technology to important biologic questions of public health significance. Experience with both DNA and RNA molecular protocols is necessary. Postdoctoral positions are available in the following areas:

Molecular Profiling: Studies to demonstrate alterations in gene expression, demonstrate genotoxic events, and search for novel infectious agents in patients with fatiguing illnesses. Current studies include application of cDNA array technology and differential display to elucidate the pathogenesis of Chronic Fatigue Syndrome and Persian Gulf War related illnesses. For additional information contact Dr. Suzanne Vernon at 404/639-2181 or e-mail sdv2@cdc.gov.

Molecular Pathology: Studies of viral gene expression and molecular markers of prognosis in cervical cancer and other chronic illnesses. Current studies include development of sensitive and novel techniques of nonisotopic *in situ* hybridization to study alterations in gene expression in a morphologic context. For additional information contact Dr. Elizabeth Unger at 404/639-3533 or e-mail eru0@cdc.gov.

Address replies with curriculum vitae, names and contact information for three references, and statement of interests to: Janie L. Oddy, Personnel Generalist, Human Resources Management Office, Centers for Disease Control and Prevention, 4770 Buford Highway, MS K-15, Atlanta, GA 30341-3724. E-mail: jlo0@cdc.gov.



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Incyte Pharmaceuticals, Inc., is a leader in the design, development and marketing of genomic database products, software tools and related services. Our database products integrate bioinformatics software with both proprietary and publicly available genetic information to create information-based tools used by pharmaceutical and biotechnology companies in drug discovery and development.

**Scientific Programmer, Senior Scientific Programmer,
Bioinformatics**

You will develop large scale UNIX-based DNA sequence analysis software used in Incyte's products. Requires solid experience in scientific computation and proven programming skills with UNIX (C/C++, Perl) and SQL databases. Requires BS in science or engineering with 2+ years in UNIX software development. Exposure to bioinformatics or molecular biology desired. REF: 971, 975.

Scientific Programmer - Image Analysis, Bioinformatics

You will develop Windows based image analysis tools for high-throughput gene expression analysis. Requires 3+ years programming experience in the Windows environment, demonstrated fluency with C++ and MFC on Win95/NT4, additional familiarity with Unix programming, and prior experience developing interactive imaging packages. Strong plusses include experience with ID and 2D DSP algorithms and toolkits, programming experience with SQL databases, and a background in molecular biology. REF: 970.

Director, Biostatistics

You will provide biostatistical experience for several product areas. Proven professional with strong biostatistical experience required. You should be support statistical needs for new product efforts. REF: 845.

Scientist/Bioinformatics

You will help develop large scale UNIX-based DNA/Protein sequence analysis software, and implement various analytical methods in new products. Requires proven programming skills with UNIX (C/C++, Perl) and a strong background in sequence analysis methods and molecular biology. Requires Ph.D. in science or engineering (or equivalent experience) and 2+ years exposure to bioinformatics, SQL database programming experience a plus. REF: 976.

Data Flow Engineer, Bioinformatics

You will perform data processing, data analysis and quality control support for large DNA sequence databases. Requires working knowledge of molecular biology and genetics, good command-line UNIX skills, some exposure to DNA sequence analysis methods, and strong communication and organizational skills. BS in science or engineering and appropriate experience required. REF: 853, 953, 972, 973, 974.

Scientist, Data Analysis

Ph.D Biologist with excellent analytical skills needed to provide scientific leadership for Genomics Tools software products. Ability to work effectively with multi-disciplinary teams an important ingredient to success. Minimum 2 years postdoctoral experience and strong background in molecular biology required, genomics experience a plus. Extensive experience with sequence search tools and UNIX knowledge required, programming skills highly desirable. REF: 846

Research Associate, Data Analysis

MS/BS level Biologists with strong analytical skills and a broad background in eukaryotic systems to provide data quality control for Incyte database products. Ability to work independently and a strong background in molecular biology required, experience in the Genomics field highly desirable; experience with sequence search tools and assembly software, familiarity with biology resources on the internet, and UNIX skills preferred. REF: 978.



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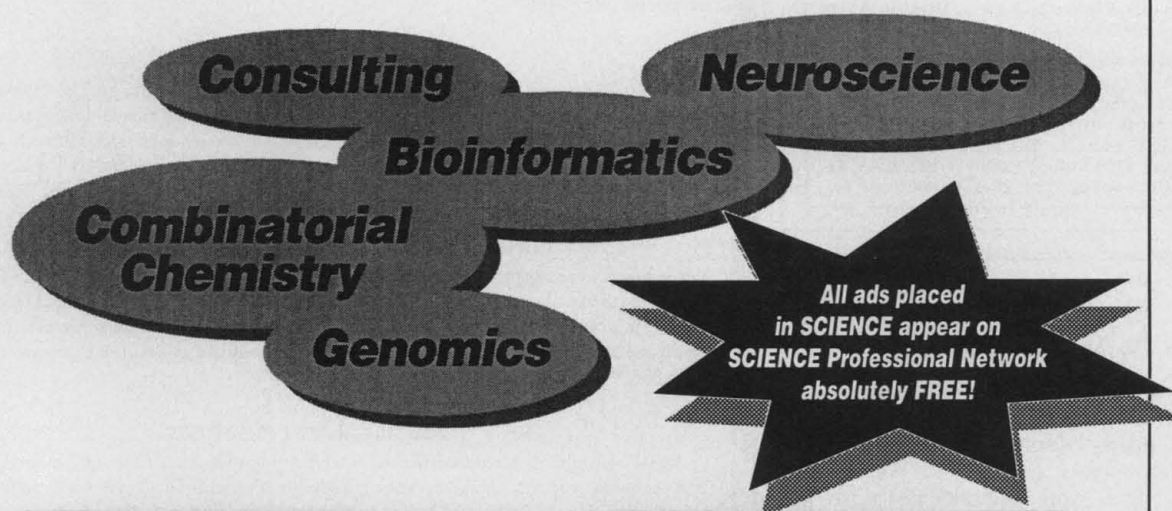
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EXECUTIVE DIRECTOR

The Association of Systematics Collections (ASC) invites applications for the position of chief executive officer in Washington, D.C. Duties include: establishing and maintaining relationships within the community of natural history collections through direct contact with members, organization of national meetings, representing constituency to Congress, federal agencies, and other organizations; program development and implementation; and supervising business operations of ASC office (including finances, fund raising for the organization's activities, and administrative support for organization). Required skills: Demonstrated abilities relevant to working with private, public, federal and state institutions and agencies in affecting regulations and legislation; a background in natural history collections and/or working in the Washington, D.C., environment. Prior professional experience in a relevant scientific field of organismal, collection-based research (e.g., systematics, conservation, community or species ecology, etc.) will be useful but not required. Send a letter of application, resumé or curriculum vitae, and names, addresses, and telephone numbers of at least three references to: **Association of Systematics Collections; 1725 K Street, NW; Suite 601, Washington, DC, 20006-1401.** E-mail may be used for preliminary inquiries: asc@ascoll.org. Review of applicants will begin 1 September 1997 and continue until a suitable candidate is hired. *Equal Opportunity Employer.*

Merck Research Laboratories – Department of Biochemistry, has several immediate opportunities for highly motivated BS/MS scientists in the following areas:

BIOCHEMISTRY

The qualified candidates will have significant experience in biochemistry, enzymology, chemistry, or related subject and have interest in a career investigating enzymatic targets in order to identify novel chemotherapeutic agents. Additional experience in receptor biochemistry, molecular biology, lipid biochemistry and/or cell biology (including cell culture) is highly desirable. (AD# 48)

MICROBIOLOGY

The qualified candidate will be a microbiologist with *in vitro*, animal model or clinical experience. (AD# 49)

Merck Research Laboratories is located in Rahway, NJ, approximately 25 miles from New York City. Our salaries, benefits, and growth potential are excellent. Qualified candidates should send resume, transcripts, and three letters of reference to: **Merck Research Laboratories, Human Resources, AD# _____, P.O. Box 2000, RY80A-3, Rahway, NJ 07065.** EEO/AA/VH Employer.



Plant Gene Expression Principal Investigator and Post-Doctoral Fellow

DuPont is a world leader in research in the chemical and biological sciences, from fundamental and applied research programs ranging from industrial bioprocess to genetically improved crops, and faster routes to environmentally friendly crop protection chemicals.

As part of a major expansion in biotechnology, DuPont Central Research and Development is seeking highly motivated individuals for a Principal Investigator (PSS 0258) and Post-Doctoral Fellow (PSS 0259) position in the area of plant gene expression. The successful candidates will join the Plant Gene Expression Group, which includes scientists from both Central Research and the Agricultural Biotechnology groups, located at the DuPont Experimental Station in Wilmington, Delaware.

The Plant Gene Expression Group is aimed at understanding and manipulating factors affecting the expression of transgenes in plants. Areas of research for these positions may include stability of transgene expression, developmentally- or environmentally-controlled gene expression, transcription factors, promoters and enhancers, mRNA processing, stability, transport, and translation, or other related topics. Previous work in these areas need not have focused on plant systems. Post-doctoral experience is preferred for applicants for the Principal Investigator position.

Whether you are just starting your career or looking for growth opportunities, we encourage you to apply. We are looking for highly motivated individuals who can become members of our research teams to enhance both our success as well as their own. You will enjoy our state-of-the-art Experimental Station facilities. These positions offer a highly competitive salary and an excellent benefits package. We are located in Wilmington, DE, an area that offers an attractive lifestyle with easy access to all the cultural, academic and recreational activities on the Eastern Seaboard.

Interested candidates should submit their C.V. including a list of references to DuPont Human Resources, PSS 0258 or PSS 0259, 1007 Market Street, N12419, Wilmington, DE 19898, or you may fax to: 800-631-2206. DuPont is an equal opportunity employer. Please make reference to the job code when responding.



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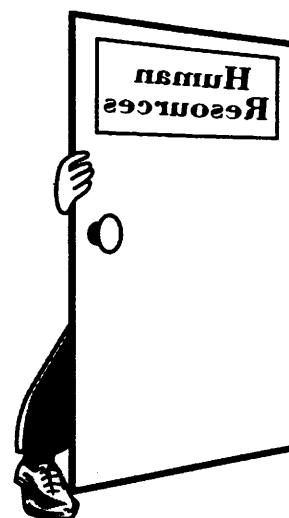
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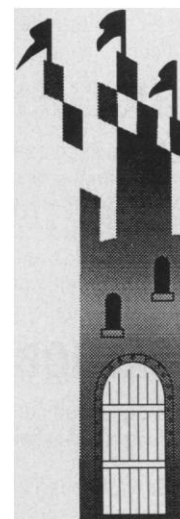
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POSTDOCTORAL POSITION

Two NIH-funded postdoctoral positions are available immediately. One project involves protein structure-function studies on the terminal enzymes of the mammalian heme synthetic pathway. This includes characterization of the [2Fe-2S] cluster and substrate binding regions of ferrochelatase and characterization of the FAD-containing protoporphyrinogen oxidase by a variety of molecular and physical techniques. Studies also include examination of naturally occurring mutant forms of these enzymes from human porphyrias.

A second position will examine gene regulation of heme synthesis in both erythroid and non-erythroid cell lines. This will also involve generation and characterization of transgenic mouse models of human porphyrias.

Please send curriculum vitae (including e-mail and telephone numbers) and three references to:

Dr. Harry A. Dailey
Center for Metalloenzyme Studies
Department of Biochemistry and Molecular Biology
University of Georgia
Athens, GA 30602-7229
E-mail: dailey@bscr.uga.edu

POSTDOCTORAL FELLOWSHIPS IN MOLECULAR PARASITOLOGY AND VECTOR BIOLOGY

The University of Georgia training program in "Molecular Cell Biology of Parasites and Vectors" has two postdoctoral openings. This NIH-sponsored program offers training in parasitology with emphasis in the areas of molecular biology, biochemistry, immunology, and cell biology of parasites and vectors. Mentors include 20 faculty participants from the University of Georgia and the National Centers for Disease Control and Prevention providing opportunities to study American and African trypanosomiasis, leishmaniasis, malaria, cryptosporidiosis, filariasis, schistosomiasis, cysticercosis, as well as vector biology. *Funding is restricted to U.S. citizens or permanent residents.* For specific information, visit our website: <http://www.uga.edu/~cellbio/parasitolTG/>. For consideration send a curriculum vitae and letter of interest to: **Molecular Parasitology Training Program, Department of Cellular Biology, University of Georgia, Athens, GA 30602-2607.** The University of Georgia is an Equal Opportunity, Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately to study the role of protein kinase and protein phosphatase targeting proteins (AKAPs) in the regulation of cardiac muscle contraction. Studies will involve investigation of expression and binding of AKAPs and AKAP regulation of protein kinase A dependent phosphorylation of myofibrillar proteins in normal, hypertrophied, and failing heart. Applicants with training in protein biochemistry and/or with molecular biology experience are invited to apply. Ph.D., M.D., or V.M.D. required. Please send curriculum vitae and names of three references to: **Dr. Meredith Bond, Department of Molecular Cardiology/FF10, Lerner Research Institute, Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44195.** Telephone: 216-444-3734; FAX: 216-445-6062; e-mail: bondm@cesmtp.ccf.org; website: <http://www.ccf.org>.

POSTDOCTORAL POSITION IN MOLECULAR PHARMACOLOGY

The H. Lee Moffitt Cancer Center has a postdoctoral position to characterize signal transduction pathways involved in apoptosis in myeloma. Research will focus on Fas-mediated and drug-induced apoptosis, and mechanisms of resistance to these pathways. Candidates with experience in molecular biological techniques, protein chemistry, and genetics are encouraged to apply.

Applicants should send their curriculum vitae and description of research interests to: **William S. Dalton, Ph.D., M.D., Associate Center Director for Clinical Investigations, Professor of Medicine, H. Lee Moffitt Cancer Center, 12902 Magnolia Drive, Tampa, FL 33612.**

POSTDOCTORAL POSITION available immediately to study the molecular mechanisms by which growth-differentiation factors play a role in mammalian reproductive systems. Applicants should have a recent Ph.D. and a solid background in molecular biology. Send curriculum vitae and three references to: **Dr. Shunichi Shimasaki, Department of Reproductive Medicine, University of California, San Diego, 9500 Gilman Drive, La Jolla, CA 92093-0674.** FAX: 619-534-4959.

POSITIONS OPEN

POSTDOCTORAL POSITION

A postdoctoral position is available immediately for a highly motivated biomolecular NMR spectroscopist. The successful candidate will be part of an interdisciplinary team whose goal is to implement a Customized Desktop Experiment Management System, for NMR studies of biomolecules and procedures for archiving the data in local and publicly accessible databases. The project is a collaboration with the National Magnetic Resonance Facility at Madison (website: www.nmrfam.wisc.edu) and BioMagResBank (website: www.bmrb.wisc.edu), headed by **Professor John L. Markley** in the Biochemistry Department, the ZOO research team, directed by **Professors Yannis Ioannidis** and **Miron Livny** in the Computer Sciences Department (website: www.cs.wisc.edu/ZOO/), and the National Center for Supercomputing Applications (website: www.ncsa.uiuc.edu). The candidate will conduct original research in structural NMR and provide expertise for the design and implementation of the ZOO-NMR interface and for the development of deposition and validation procedures for NMR structural data at BMRB.

Please contact: **John L. Markley, Department of Biochemistry, University of Wisconsin-Madison, Madison, WI 53706.** Telephone: 608-263-9349; FAX: 608-262-3453; e-mail: markley@nmrfam.wisc.edu.

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Individuals are invited to apply for **POSTDOCTORAL FELLOWSHIP** positions supported by the National Library of Medicine or the National Science Foundation (*citizenship or permanent residency required*). The Center supports research at the interface between biology and computational science, providing trainees with cross-training, dual mentorship, and cutting-edge facilities. Areas of opportunity include advanced computational methods, algorithm development, biomedicine, crystallography, dynamics and design, genome studies, imaging, medical informatics, neuroscience, and structure/function of biomolecules.

For more information, access the Keck Center on-line at: <http://www.bioc.rice.edu/keck>.

Telephone: 713-527-4752
FAX: 713-527-4659
E-mail: march@bioc.rice.edu

POSTDOCTORAL RESEARCHER

The Marine Life Research Group/California Cooperative Oceanic Fisheries Investigations of the Scripps Institution of Oceanography, invites applications for a postdoctoral investigator in California current studies for one or two years. CalCOFI is a 48-year-old interdisciplinary investigation of the biology, chemistry, physics, and paleoecology of the California current system. The field of study is open, but the proposed research should be related to CalCOFI objectives, and may include the analysis of existing data or samples. A Ph.D. is required. Contact **Mary Oliveria** at Telephone: 619-534-2868; e-mail: molivarria@ucsd.edu for an information package. Submit curriculum vitae, statement of proposed research, and names and addresses of three references including their individual specialties to: **Dr. Michael M. Mullin, Director, Marine Life Research Group, Scripps Institution of Oceanography, University of California, San Diego, 9500 Gilman Drive, La Jolla, CA 92093-0227** by October 1997. Salary will be commensurate with experience and based on UC salary scales; benefits are included. The University of California is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION

Position available immediately to study hematopoietic stem cell preservation, expansion, and hematopoiesis. Experience in advanced cell culture (including perfusion systems) and stem cell assays preferred. Send curriculum vitae and names of three references to: **Cytomatrix, 100 Inman Street, Suite 104, Cambridge, MA 02139.**

Duke University Integrated Toxicology Program **POSTDOCTORAL FELLOW** position. **RJR Leon Goldberg Fellowship** \$27,500 to \$30,000 a two-year appointment. Application deadline is September 15, 1997. For further information on applying please contact: **Edward D. Levin, Ph.D., Duke University Medical Center Integrated Toxicology Program, Box 3572, Durham, NC 27710.** E-mail: edlevin@acpub.duke.edu.

POSITIONS OPEN

HARVARD MEDICAL SCHOOL

POSTDOCTORAL POSITION available in the Center for Neurologic Diseases (CND) at Harvard Medical School and Brigham and Women's Hospital to study the molecular basis of brain disease with **Pls Jie Shen** (joining CND 1/98), **Peter Lansbury**, **Kenneth Kosik** and **Dennis Selkoe**. An exciting interdisciplinary environment for basic research on neurological problems. Motivated, recent Ph.D. with substantial experience in molecular biology, gene targeting and mouse transgenics, and neuropathology can apply. Curriculum vitae, two recent reprints, and names of three references to: **Mr. Steven Hoffman, Center for Neurologic Diseases, Harvard Institutes of Medicine, 77 Avenue Louis Pasteur, Boston, MA 02115-5716.**

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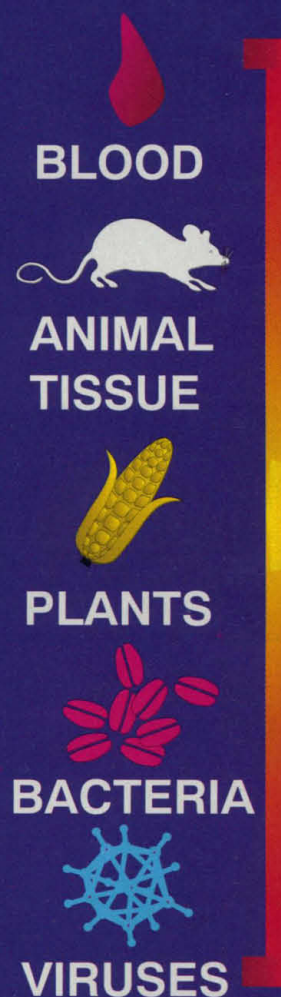
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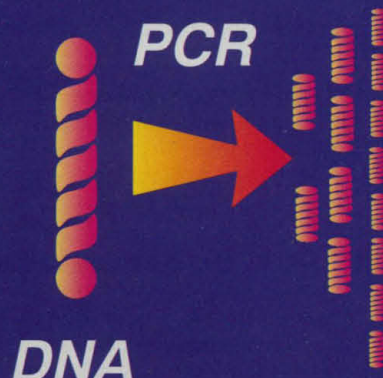
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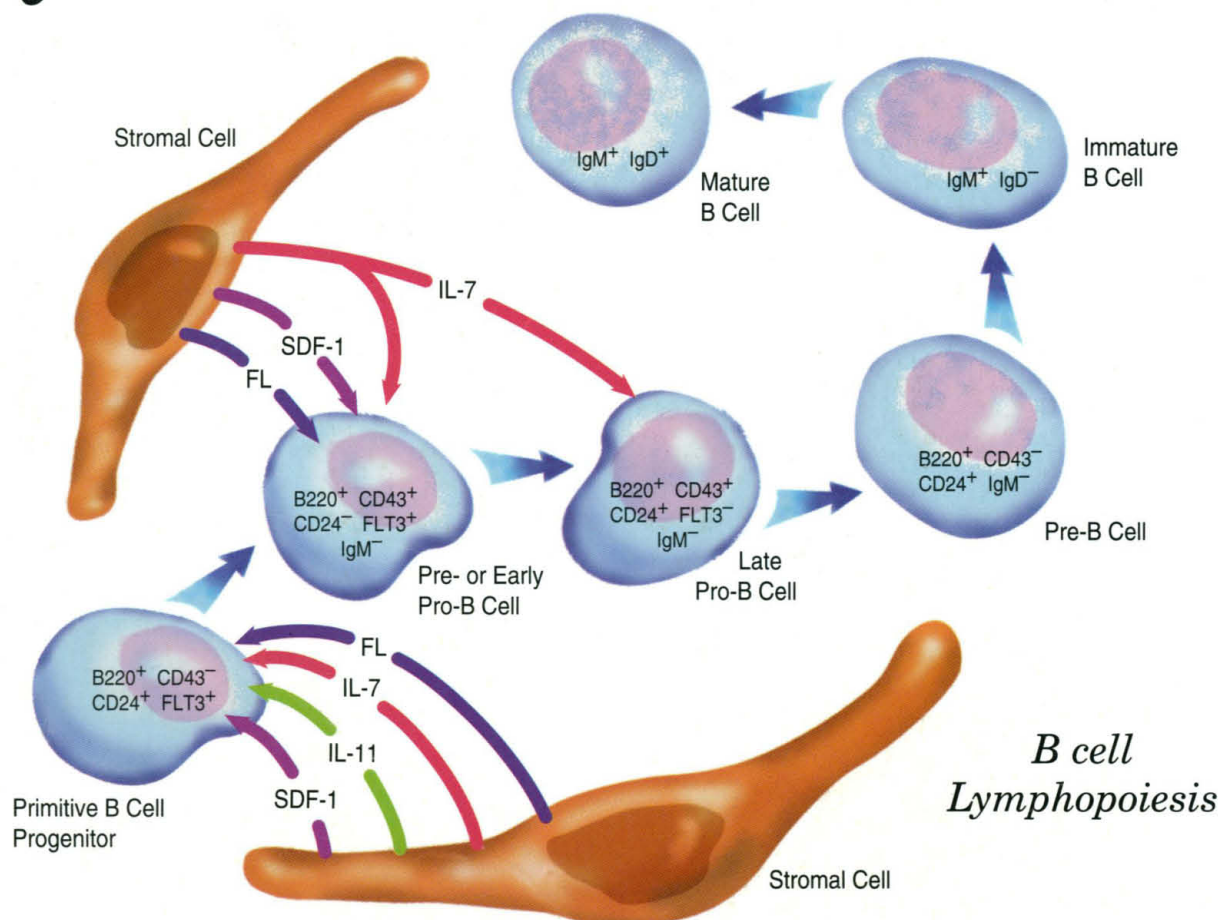
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